

SERVICE MANUAL

BE-5 CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.	MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-21X1A	RM-836	Italian	SCC-K31B-A	KV-21X1K	RM-836	OIRT	SCC-K35A-A
KV-21X1B	RM-836	French	SCC-K36A-A	KV-21X1L	RM-836	Irish	SCC-K34A-A
KV-21X1D	RM-836	AEP	SCC-K32D-A	KV-21X1R	RM-836	OIRT	SCC-K35B-A
KV-21X1E	RM-836	Spanish	SCC-K30B-A	KV-21X1U	RM-836	UK	SCC-K33A-A



MICROFILM

TRINITRON® COLOR TV
SONY®

ITEM	MODEL	Television System	Channel Coverage	Colour System
Italian	B/G/H	VHF: E2-E12 UHF: E21-E69 Hyper: S1-S41		PAL NTSC3.58/4.43 (Only Video in)
AEP	B/G/H, D/K	B/G/H VHF: E2-E12 UHF: E21-E69 Hyper: S1-S41 D/K VHF: R1-R12 UHF: R21-R69		PAL, SECAM NTSC3.58/4.43 (Only Video in)
Spanish	B/G/H, D/K	B/G/H VHF: E2-E12 UHF: E21-E69 Hyper : S1-S41 D/K VHF: R1-R20 UHF: R21-R69		PAL, SECAM NTSC3.58/4.43 (Only Video in)
OIRT	B/G, D/K	B/G VHF: E2-E12 UHF: E21-E69 Hyper: S1-S41 D/K R1-R12, R21-R69		PAL, SECAM NTSC3.58/4.43 (Only Video in)
Irish UK	I	Irish (KV-21X1L) VHF: A-C, D-J UHF: B21-B69 Cable Channels : S21-S41 Hyper: S1-S41 UK (KV-21X1U) UHF: B21-B69		PAL NTSC3.58/4.43 (Only Video in)

MODEL	21X1A	21X1B	21X1D	21X1E	21X1K	21X1R	21X1L 21X1U
Power Consumption			75W		75W	75W	100W

SPECIFICATIONS

Picture Tube Hi-Black Trinitron
Approx. 55 cm (21 inches)
(Approx. 51 cm picture measured
diagonally) 100° deflection

Rear/Front Terminals

[REAR]

- 21-pin Euro connector (CENELEC standard)
- Including audio/video input, RGB input

[FRONT]

- 2 Video input - phono jack
- Audio inputs - phono jacks
- S Video input - 4 pin DIN
- Headphone jack - stereo minijack

[RM-836]

Remote control system
Power requirements
Dimensions
Weight

Infrared control
3V dc (2 batteries) R6 (size AA)
Approx. 210x45x24 mm (w/h/d)
Approx. 90g
(Not including battery)

Sound output 14Wx2 (music power)
7Wx2 (RMS)

Dimensions 517x444x485 mm approx.

Weight Approx. 26.5 kg

Supplied accessories RM-836 Remote Commander (1)
IEC designated batteries (2)

Other features TELETEXT, Fasttext
TOP text (KV-21X1D/21X1K/)
NICAM (KV-21X1L/21X1U/)

Design and specifications are subject to change without notice.

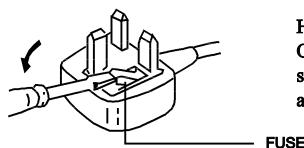
Item \ Model name	KV-21X1A	KV-21X1B	KV-21X1D	KV-21X1E	KV-21X1K	KV-21X1R	KV-21X1L KV-21X1U
PIP	OFF						
MPIP	OFF						
Rotation Coil	OFF						
VM Set (Velocity Modulation)	ON						
Scart 1	ON						
Scart 2	OFF						
Front in (3)	ON						
AKB in 16:9 mode	ON						
TXT	ON						
FLOF	ON						
TOP	ON						
Norm B/G/H	ON	ON	ON	ON	ON	ON	OFF
Norm I	OFF	ON	OFF	OFF	OFF	OFF	ON
Norm D/K	OFF	OFF	ON	ON	ON	ON	OFF
Norm L	OFF	ON	OFF	OFF	OFF	OFF	OFF
Language Preset	Italian	French	German	Spanish	OIRT	OIRT	English

WARNING (KV-21X1L and 21X1U only)

The flexible mains lead is supplied connected to a B.S. 1363 fused plug having a fuse of 5 AMP capacity. Should the fuse need to be replaced, use a 5 AMP FUSE approved by ASTA to BS 1362, ie one that carries the  mark.

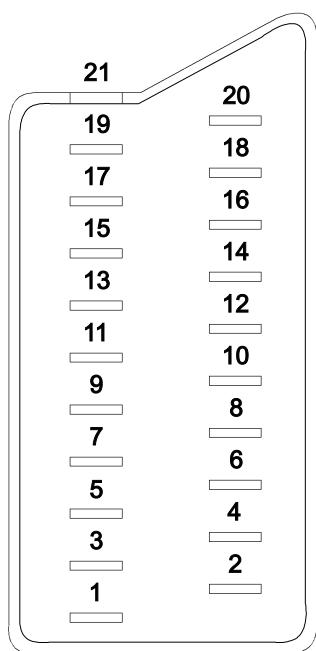
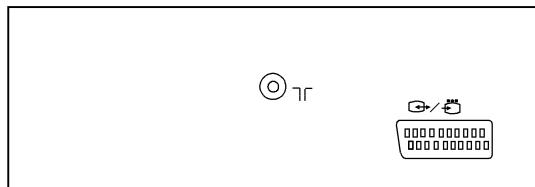
IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR YOUR SOCKET OUTLETS IN YOUR HOME. IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED. THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE SOCKET OUTLET.

When an alternative type of plug is used it should be fitted with a 5 AMP FUSE, otherwise the circuit should be protected by a 5 AMP FUSE at the distribution board.



How to replace the fuse.
Open the fuse compartment with the screwdriver blade and replace the fuse.

21 pin connector (1)



Pin No.	1	2	4	Signal	Signal Level
1	○	○	○	Audio output B (Right)	Standard level : 0.5V rms Output impedance : Less than 1k ohms*
2	○	○	○	Audio input B (Right)	Standard level : 0.5V rms Output impedance : More than 10k ohms*
3	○	○	○	Audio output A (Left)	Standard level : 0.5V rms Output impedance : Less than 1k ohm*
4	○	○	○	Ground (Audio)	
5	○	○	○	Ground (Blue)	
6	○	○	○	Audio input A (Left)	Standard level : 0.5V rms Output impedance : Less than 10k ohm*
7	○	●	●	Blue input	0.7 ± 3dB, 75 ohms, positive
8	○	○	○	Function select (AV control)	High state (9.5 - 12V) : Part mode Low state (0 - 2V) : TV mode Input impedance : More than 10k ohms Input capacitance : Less than 2nF
9	○	○	○	Ground (Green)	
10	○	○	○	Open	
11	○	●	●	Green	
12	○	○	○	Open	
13	○	○	○	Ground (Red)	
14	○	○	○	Ground (Blanking)	
15	○	—	—	Red input	0.7 ± 3dB, 75 ohms, positive
	—	○	○	(S signal) chroma input	0.7 ± 3dB, 75 ohms, positive
16	○	●	●	Blanking input (Ys signal)	High state (1 - 3V) Low state (0 - 0.4V) Input impedance : 75 ohms
17	○	○	○	Ground (Video output)	
18	○	○	○	Ground (Video input)	
19	○	○	○	Video output	1V ± 3dB, 75ohms, positive sync : 0.3V (-3 + 10dB)
20	○	—	—	Video input	1V ± 3dB, 75ohms, positive sync : 0.3V (-3 + 10dB)
	—	○	○	Video input Y (S signal)	1V ± 3dB, 75ohms, positive sync : 0.3V (-3 + 10dB)
21	○	○	○	Common ground (plug, shield)	

○ Connected ● Not Connected (Open) * at 20Hz - 20kHz

Pin No.	Signal	Signal Level
1	Ground	
2	Ground	
3	Y (S signal) input	1V ± 3dB 75 ohm, positive Sync. 0.3V -3 + 10dB
4	C (S signal) input	0.3V ± 3dB 75ohm, positive Sync.

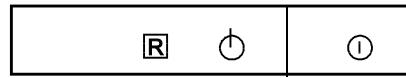
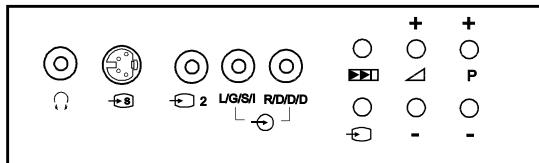


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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINT SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ÊTRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDE À L'ALIMENTATION SECTEUR.

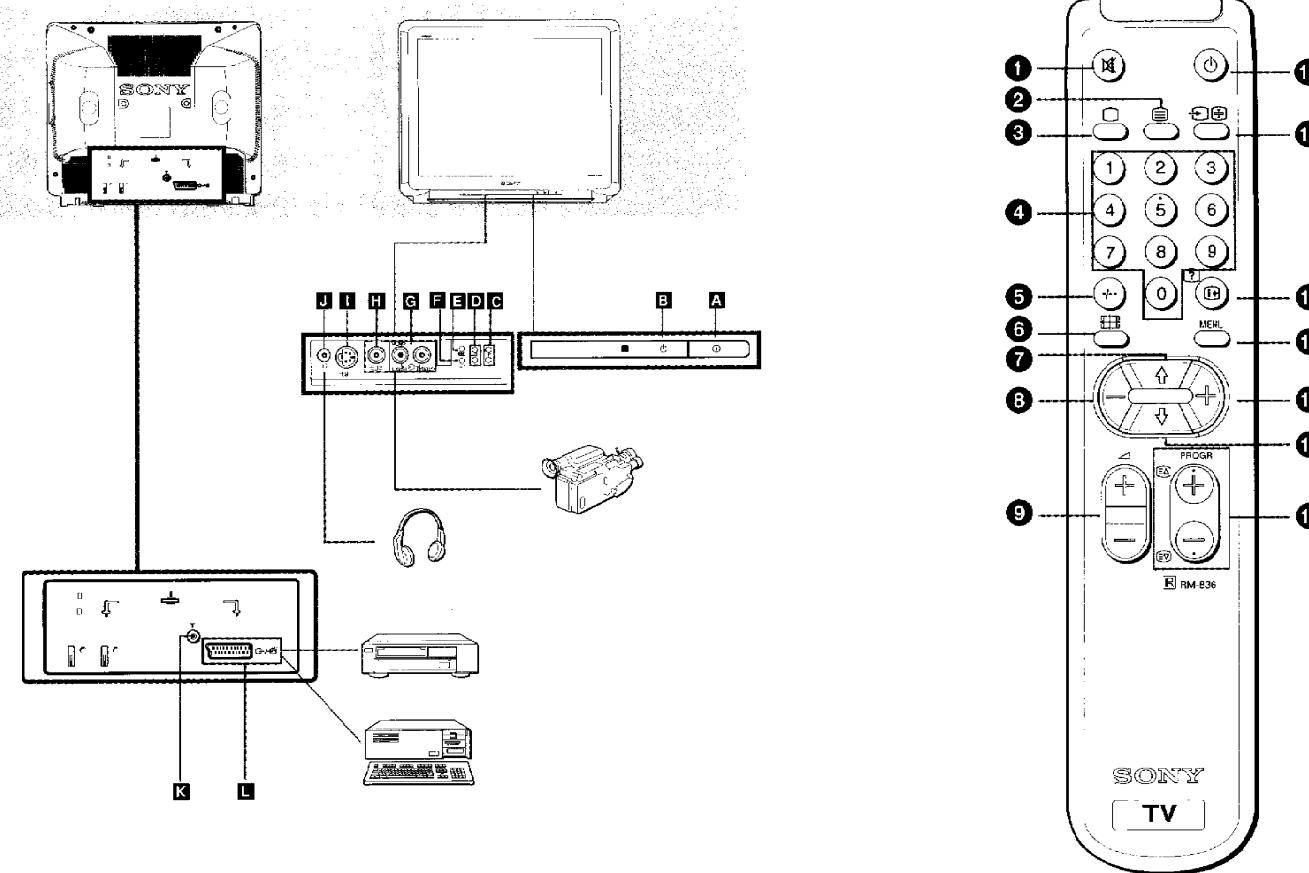
SAFETY-RELATED COMPONENT WARNING!!
COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND, IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MARQUE  SUR LES VUES EXPLOSÉES ET LES LISTES DE PIÈCES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDICUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instructions Manual. The page numbers of the Operating Instruction Manual remain as in the manual.



Getting Started

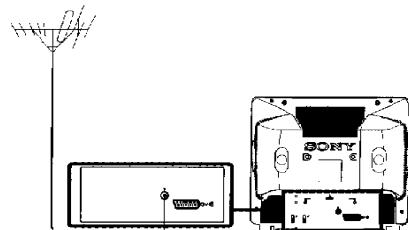
Please open the flaps at the front and at the back of the Instruction Manual for illustrations of the TV set and the Remote Commander. Letters in boxes refer to the buttons on the TV set, numbers in circles to the buttons on the Remote Commander.

Step 1

Connecting the Aerial

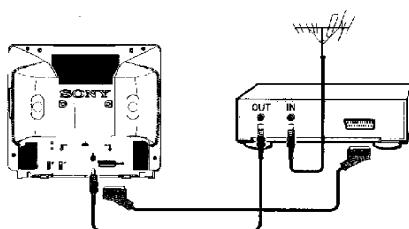
(If you connect a VCR, skip to step 2).

Connect an external aerial to the socket  .



Step 2

Connecting a VCR



We recommend that you tune in the VCR signal to programme number "0".
For details see "Presetting Channels Manually" on page 13.

Step 3

Connecting the Mains Plug

Connect the mains plug of the TV set to the electrical outlet (220-240 V AC, 50 Hz).

Step 4

Inserting the Batteries into the Remote Commander



Always remember to dispose of used batteries in an environmental friendly way.

Step 5

Remote Commander Overview

Refer to Symbol	Effect	Refer to Page
①	Sound on/off button	10
②	Teletext on button	17
③	TV button / TV power on Teletext off button	10 17
④ 1...9, 0	Number buttons	10
⑤ -/-	Double digit entering button	10
⑥	Screen Format	10
⑦, ⑧, ⑨, ⑩, ⑪ 	MENU: Cursor buttons to operate Menu functions TELETEXT: Fastext / TOP Text buttons	11 17
⑫	Volume control	10
⑬	Standby button	10
⑭	Input mode button Teletext: Freezing the subpage	18 17
⑮	On screen display button Teletext: Reveal button	10 17
⑯ MENU	Menu on/off button	11
⑰ PROGR +/- 	Programme buttons Teletext: Page up/down buttons	10 17

Step 6

Presetting Channels Automatically

TV searches for all available channels.
If manual tuning is preferred see Menu
option - Presetting Channels Manually.



- 1 Depress power switch ① A on TV set.
- 2 Press and hold ⑪ E on TV set for 2 seconds.
Auto tuning starts and screen shows.

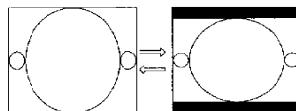
- When Auto tuning stops, the programme position 1 is displayed.
- Programme names are automatically taken from Teletext if available. With that function, you can easily identify which channel you are watching.

TV Operation

TV Operation

This section explains functions used whilst watching TV. Most operations are carried out using the Remote Commander (numbers in circles). All basic functions are also available on the TV set (letters in boxes).

To	Press
Switch on	•  A on TV
Switch off temporarily	•  10 <i>TV is now in standby mode,  indicator B on TV lights.</i>
Switch on again	•  3, PROGR +/-  C or any number button 
Switch off completely	•  A on TV <i>To save energy we recommend switching off completely when TV is not in use.</i>
Select programmes	• PROGR +/-  C or number buttons  <i>For double digit numbers press -/-  then the number e.g. For 23, press -/-  then 2 and 3.</i>
Display the programme number	•  12 <i>Press again to make programme number disappear.</i>
Adjust the volume	•  +/-  D
Mute the sound	•  1 <i>Press again to restore sound.</i>
View video input	•  1 F <i>Press again to return to TV programme.</i>
View programmes in 16:9 mode	•  6 <i>Press again to return to 4:3 mode.</i>



MENU Operation

Use the following buttons on Remote Commander to control Menu screen.

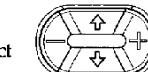
1 Press MENU  to switch the Menu Screen on/off.

MENU



2 Use the coloured buttons as follows:

Green 
Scroll up



Yellow + 
increase/confirm(OK)

Blue 
Scroll down

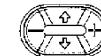
Adjusting the Picture and Sound

1 Press MENU .

MENU



2 Press green  or blue  to select  (Picture) or  (Sound) and press yellow  (OK) to confirm.



3 Press green  or blue  to select the item you wish to change.

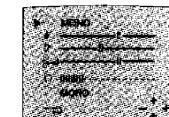
PICTURE CONTROL

Symbol	Item	-	Effect	+
	• Picture	Less	More	
	• Colour	Less	More	
	• Brightness	Darker	Brighter	
	• Sharpness	Softer	Sharper	
	• Hue control (only for NTSC video signals)	Reddish	Greenish	



SOUND CONTROL

Symbol	Item	-	Effect	+
	• MONO/STEREO	A: Channel 1 Stereo Mono	B: Channel 2	
	• Treble	Less	More	
	• Bass	Less	More	
	• Balance	More left	More Right	
	• Headphones: Volume	Less	More	
	MONO/STEREO	A: Channel 1 Stereo/Mono	B: Channel 2	



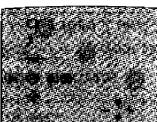
4 Press red ⑧ or yellow ⑨ to change levels.

5 Press MENU ⑩ to return to normal TV screen.

- To reset to factory preset picture levels, press green ⑦ or blue ⑧ to select $\rightarrow\leftarrow$ and press yellow (OK) ⑨.
- To return to the Main menu, select \Rightarrow and press yellow.

Using the Sleep Timer

The TV may be set to switch to the standby mode automatically after a length of time chosen by you. You may set the time in 30 minutes steps up to 4 hours.



1 Press MENU ⑩.

2 Press green ⑦ or blue ⑧ to select \downarrow

3 Press red ⑧ or yellow ⑨ to set time delay.
0.00 (OFF) 0.30 1.00 1.30 ... 4.00

4 Press MENU ⑩ to return to normal TV screen.
When watching TV, press ⑩ ⑫ to display time remaining.

Presetting Channels Manually

Up to 100 programme positions are available for presetting channels.

1 Press MENU ⑩.

2 Press green ⑦ or blue ⑧ to select \Rightarrow and press yellow (OK) ⑨.



3 Select programme number using PROGR +/- ⑪ ⑫ or the number buttons ④.



4 Press green ⑦ or blue ⑧ to select TV system (BG or DK) if necessary and press red ⑧ or yellow ⑨ to change TV system.

5 Press green ⑦ or blue ⑧ to select tuning bar (|||||...) and press red ⑧ or yellow ⑨ to start channel search. When a channel is found the tuning bar stops moving and you see the picture.

6 If you want to store, press green ⑦ or blue ⑧ to select \diamond and press yellow (OK) ⑨. If you don't want to store, press red ⑧ or yellow ⑨ to continue search.

7 Repeat steps 3 to 6 for all other channels.

8 Press MENU ⑩ to return to normal TV screen.

Skipping Programme Positions

You can skip unused programme positions when selecting channels with the PROGR +/- ⑯ C buttons. You can still select them, however, using the number buttons ④.

1 Press MENU ⑬.

2 Press green ⑦ or blue ⑮ to select \diamond and press yellow ⑯.



3 Select programme number you want to skip using PROGR +/- ⑯ C or number buttons ④.



4 Press green ⑦ or blue ⑮ to select Coo and press yellow (OK) ⑯.

5 Press green ⑦ or blue ⑮ to select \diamond and press yellow (OK) ⑯ to store.

6 Repeat steps 3 to 5 for other unused programme positions.

7 Press MENU ⑬ to return to normal TV screen.

Fine-Tuning Channels

You can fine tune a stored channel.

1 Select the channel you wish to fine tune.

2 Press MENU ⑬.

3 Press green ⑦ or blue ⑮ button to select \diamond and press yellow (OK) ⑯.



4 Press green ⑦ or blue ⑮ to select $\leftrightarrow F \leftrightarrow$ and use red ⑥ or yellow ⑮ to adjust tuning.



5 Press green ⑦ or blue ⑮ to select \diamond and press yellow (OK) ⑯ to store.

6 Press MENU ⑬ to return to normal TV screen.

Exchanging Programme Positions

After tuning you may wish to rearrange the programme positions.

1 Press MENU ③.



2 Press green ⑦ or blue ⑯ button to select \Rightarrow and press yellow (OK) ⑪.



3 Press green ⑦ or blue ⑯ to select PROGR $\overline{10}$ and press yellow (OK) ⑪.



4 Press red ⑧ or yellow ⑯ to select the first programme position.



5 Press the blue ⑯ button.



6 Press red ⑧ or yellow ⑯ to select the second programme position.



7 Press blue ⑯ to select $\overline{10}$ and press yellow (OK) ⑪ to exchange.



8 Repeat steps 4 to 7 for other programme positions.



9 Press MENU ③ to return to normal TV screen.

Teletext Operation

Viewing Teletext

Teletext is an information service broadcast by TV stations.

1 Select the channel which carries the teletext service you wish to receive.

2 Press TV ② to switch on teletext.

3 Input three digits for the page number using the programme number buttons ④ or $\text{CH}+/\text{CH}-$ ⑯ (next or previous page).

4 Press TV ② to switch off teletext.

Teletext errors may occur if the broadcasting signals are weak.

Using Other Teletext Functions

Superimposing teletext on the TV

Press TV ② once in teletext mode or twice in TV mode to superimpose teletext on the TV screen.



Press TV ② again to cancel superimposing.



Freezing a teletext subpage

Press HOLD ⑪ (HOLD) to freeze the subpage. Freezing the page prevents the information that is displayed from being updated.

Press HOLD ⑪ to cancel HOLD and allow update to continue.

Revealing concealed information (eg: answers to a quiz).

Press SUB ⑫ to reveal information.

Press again to conceal the information.

Using colour buttons to access pages (Fastext)

When the colour coded menu appears at the bottom of a page, press the colour button (green, red, yellow or blue) ⑦⑧⑪⑯ to access the corresponding page.

Optional Connections

Connecting Optional Equipment

There is a wide range of optional equipment you can connect to your TV. Refer to the illustrations on the back flap page of this manual.

Symbol	Acceptable input signals
	• Normal audio/video and S video through the phono jacks.
	• Normal audio/video and RGB through Euro AV connector.

Note: Make sure not to switch on the equipments connected to the front connectors and at the same time.

Selecting the Input

Press **F** repeatedly to select the desired video source.
Press **3** to return to normal TV operation.

Connecting Headphones

Plug in the headphones to the socket on the front of the TV set.

Additional Information

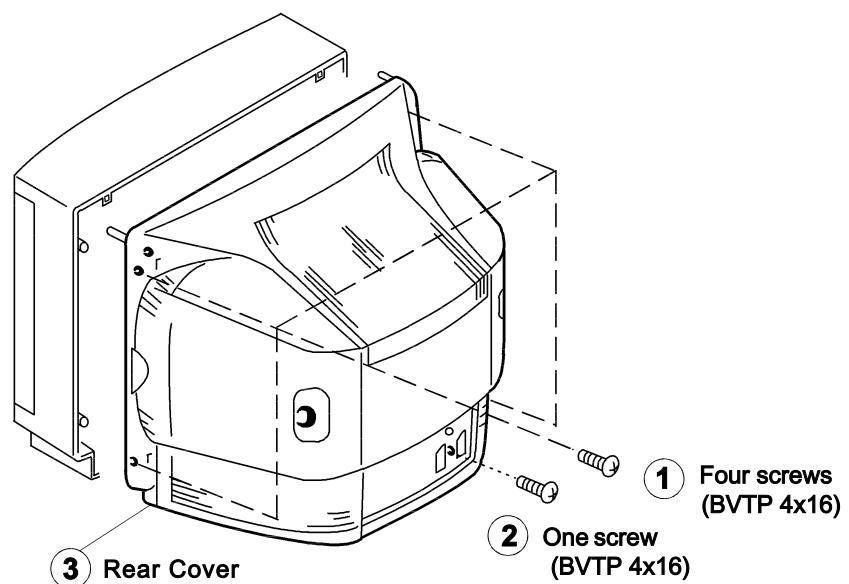
Troubleshooting

Here are some simple solutions to the problems which affect the picture and sound.

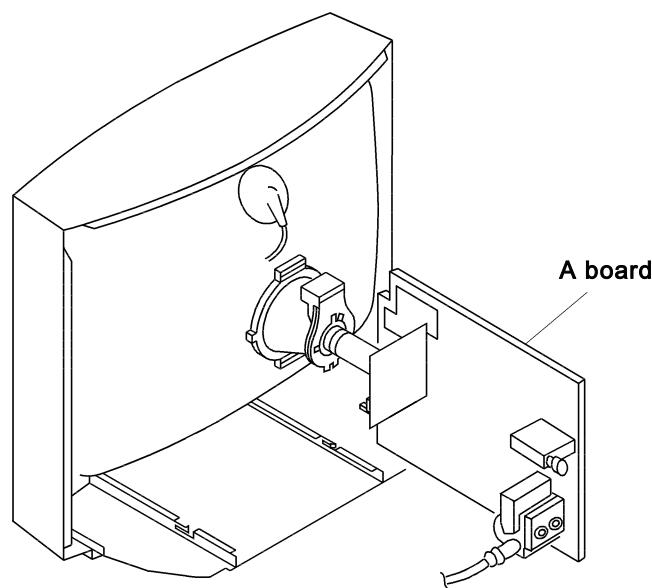
Problem	Solution
No picture, screen is dark, no sound	<ul style="list-style-type: none">• Plug the TV in.• Press A on the TV.• If indicator B is on press 3 or the programme number 4 on the remote commander.• Check the aerial connection.• Check that the video source is on.• Turn the TV off for 3 or 4 seconds and then turn it on again using A.
Poor or no picture (screen is dark, sound is good)	<ul style="list-style-type: none">• Press MENU 13 and adjust brightness picture and colour balance level.
Picture moved to the left when watching a RGB video source	<ul style="list-style-type: none">• Press 1 repeatedly to select .
Good picture, no sound	<ul style="list-style-type: none">• Adjust the volume 9 D.• Disconnect any headphones.• If is displayed on the screen, press 1.
No colour on colour programmes	<ul style="list-style-type: none">• Press MENU 13 and adjust colour balance.• Press MENU 13 and reset to factory settings.
Distorted picture when changing programmes or selecting teletext	<ul style="list-style-type: none">• Turn off the equipment connected to the 21-pin connector L.
Remote commander does not function	<ul style="list-style-type: none">• Replace the batteries.
<p>• If you continue to have these problems, have your TV serviced by qualified personnel.</p> <p>• NEVER open the casing yourself.</p>	

SECTION 2
DISASSEMBLY

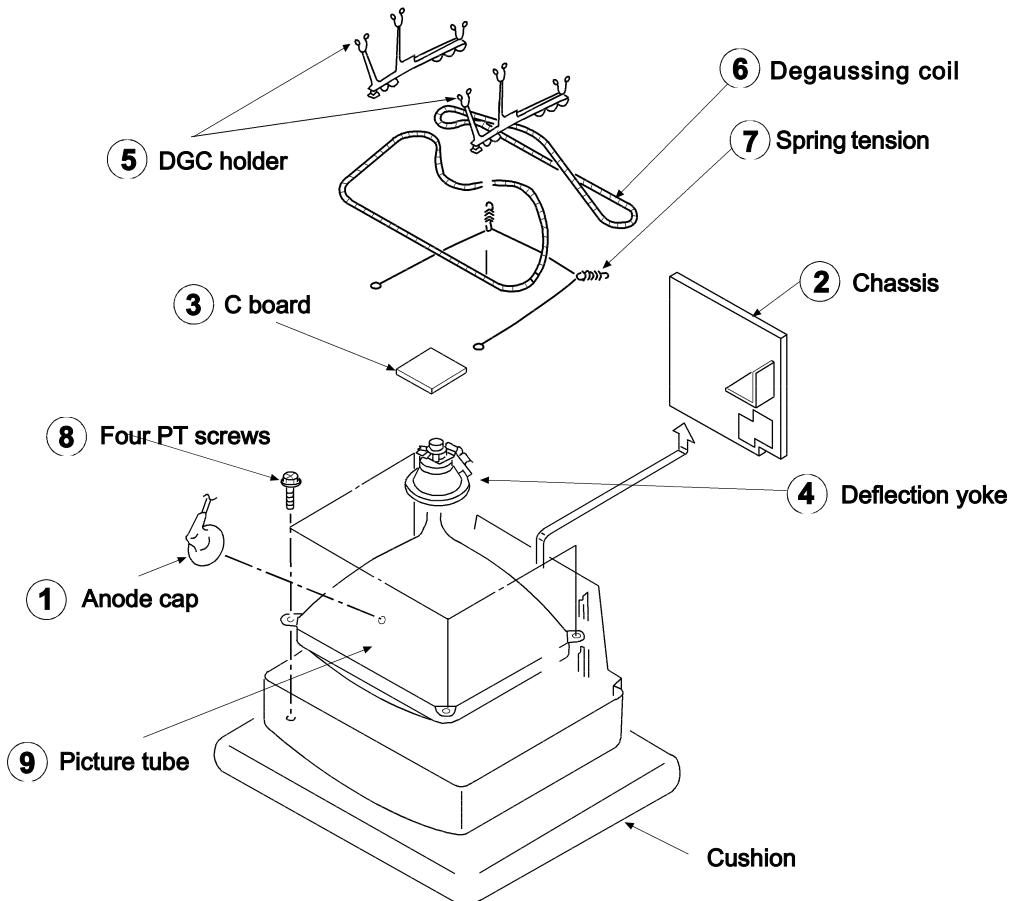
2-1. REAR COVER REMOVAL



2-2. SERVICE POSITION



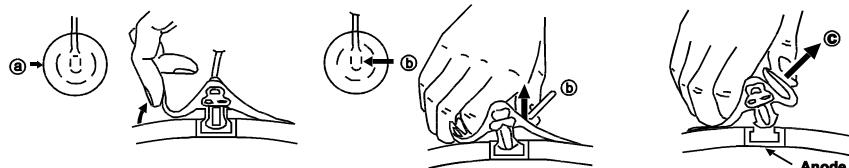
2-3. PICTURE TUBE REMOVAL



• REMOVAL OF ANODE-CAP

Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

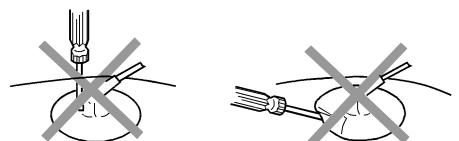
* REMOVING PROCEDURES.



- ① Turn up one side of the rubber cap in the direction indicated by the arrow ①
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ②
- ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ③

• HOW TO HANDLE AN ANODE-CAP

- ① Don't damage the surface of anode-cap with sharp shaped material !
- ② Don't press the rubber hardly not to hurt inside of anode-caps !
A metal fitting called as shatter-hook terminal is built into the rubber.
- ③ Don't turn the foot of rubber over hardly !
The shatter-hook terminal will stick out or damage the rubber.



SECTION 3

SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with the rated power supply voltage, unless otherwise noted.

The Contrast and Brightness controls should be set as follows unless otherwise noted:

CONTRAST control 80%
(or Normal by commander)
BRIGHTNESS control 50%

Perform the adjustments in the following order:

- Beam Landing
- Convergence
- Screen (G2), Drive, White Balance, Sub Colour and Sub Brightness.
- Focus

Note: Test Equipment Required.

- Colour bar/Pattern Generator
- Degausser
- DC Power Supply
- Digital multimeter
- Oscilloscope

Preparation:

- In order to reduce the influence of external magnetic forces on the picture tube, face the TV set in an easterly or westerly direction.
- Turn the power switch for the unit ON and erase the magnetic force using a degausser.

3-1. BEAM LANDING

Demagnetize with a degausser.

- Input an all white raster signal from the pattern generator.
CONTRAST } normal
BRIGHTNESS }
- Switch the raster signal of the pattern generator to Red.
- Move the deflection yoke backward, and adjust with the purity control so that Red is at the centre and the Blue and Green are evenly spaced at the sides. see (Fig. 3-1 - 3-3)
- Move the deflection yoke forward, and adjust so that the entire screen becomes Red. (Fig. 3-1)
- Switch the raster signal to Blue and then Green to confirm the condition.
- When the position of the deflection yoke has been determined, tighten it with the deflection yoke mounting screw.
- When the landing at the corners is not correct, adjust by using disk magnets. (Fig. 3-4)

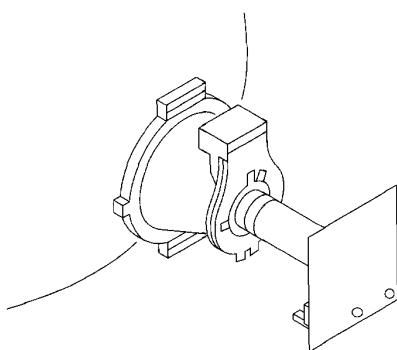


Fig. 3-1

Fig. 3-2

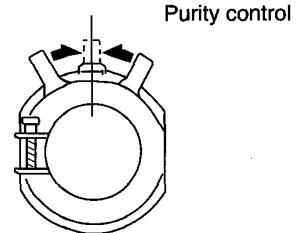


Fig. 3-3

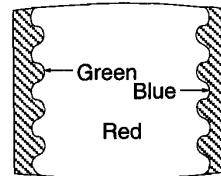
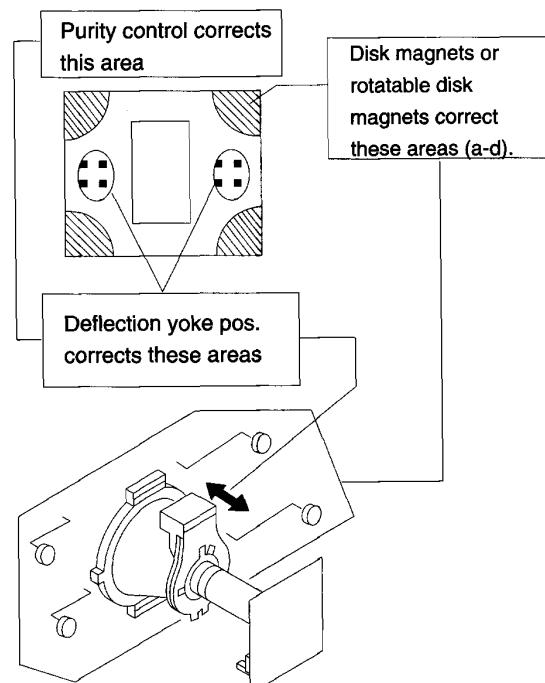


Fig. 3-4

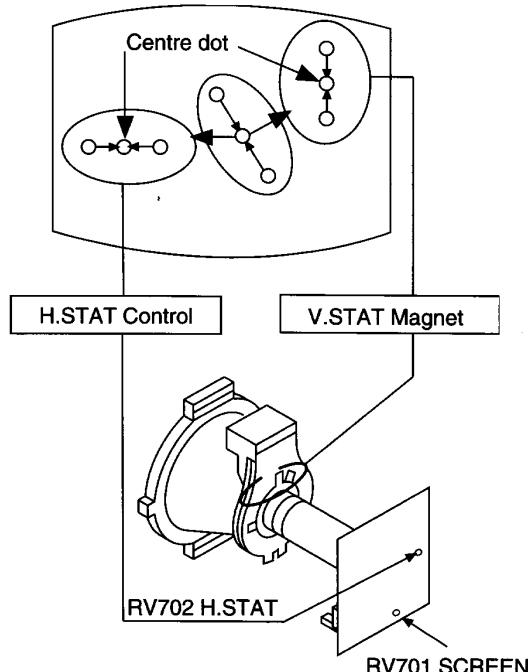


3-2. CONVERGENCE

Preparation:

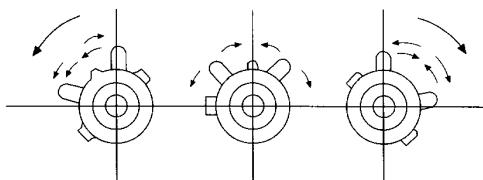
- Before starting, perform FOCUS, H.SIZE, and V.SIZE adjustments.
- Set the BRIGHTNESS control to minimum.
- Input a dot pattern from the pattern generator.

(1) Horizontal and Vertical Static Convergence

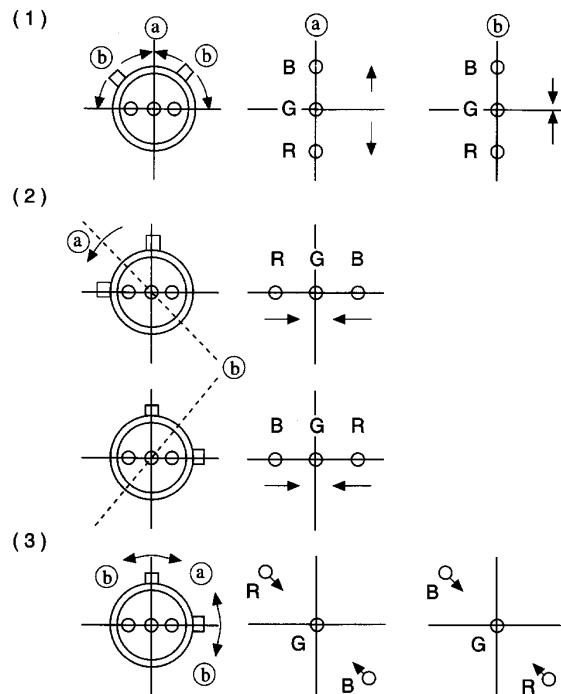


- Adjust the H.STAT control to converge the Red, Green and Blue dots at the centre of the screen. (Horizontal movement)
- Adjust the V.STAT magnet to converge the Red, Green and Blue dots at the centre of the screen. (Vertical movement)

If the horizontal dots cannot coincide with variable range of the H.STAT convergence, adjust together with the V.STAT convergence while tracking.
(Adjust the convergence by tilting the V.STAT convergence or by opening or closing the V.STAT convergence.)



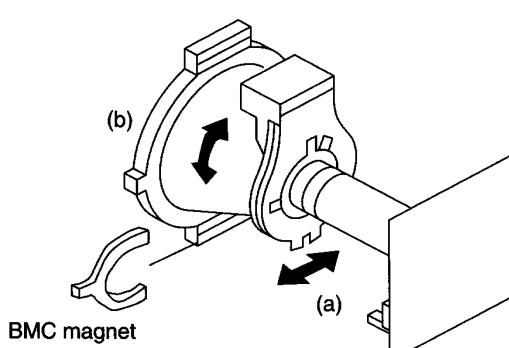
- When the V.STAT magnet is moved in the direction of the (a) and (b) arrows, the Red, Green and Blue dots move as shown below.



If the Red and Blue dots do not converge with the Green dots, perform the following steps.

- Move the BMC magnet (a) to correct for insufficient H.static convergence.
- Rotate the BMC magnet (b) to correct for insufficient V.static convergence.

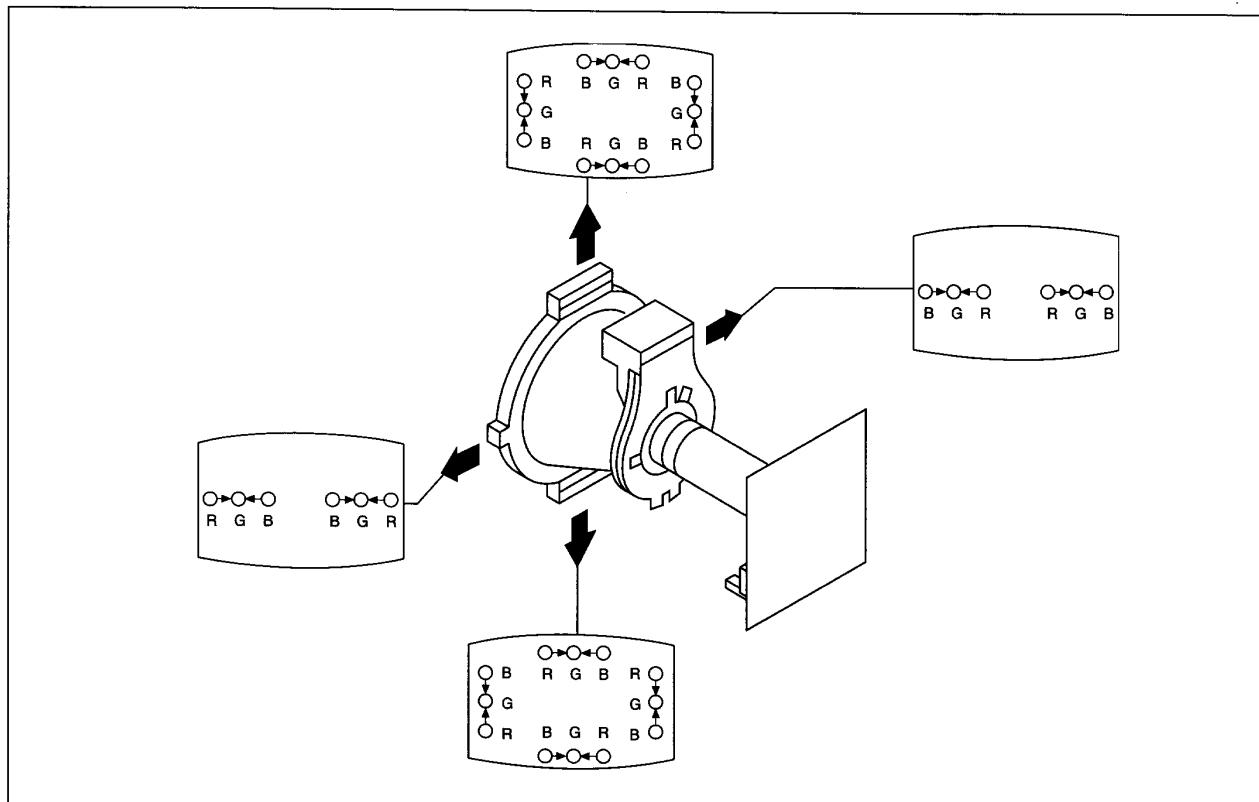
In either case, repeat the Beam Landing Adjustment.



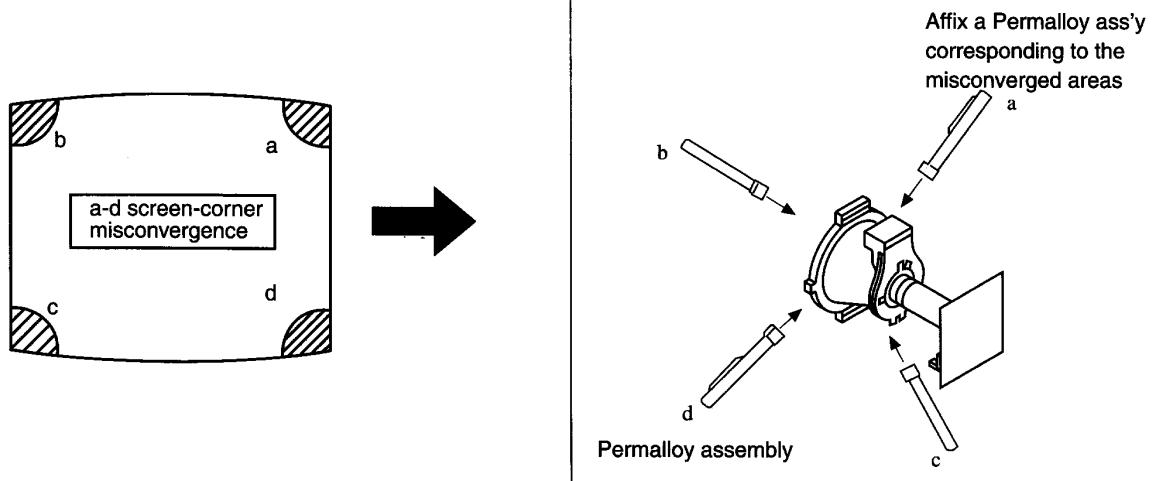
(2) Dynamic Convergence Adjustment

Preparation:

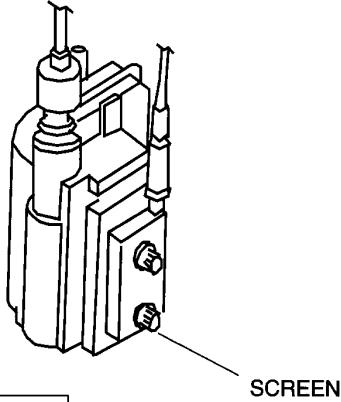
- Before starting, perform the Horizontal and Vertical static convergence adjustment.
- 1. Slightly loosen the deflection yoke screw.
- 2. Remove the deflection yoke spacers.
- 3. Move the deflection yoke for best convergence as shown below.
- 4. Tighten the deflection yoke screw.
- 5. Install the deflection yoke spacers.



(3) Screen-corner Convergence.



3-3. SCREEN (G2), DRIVE, WHITE BALANCE, SUB COLOUR and SUB BRIGHTNESS.

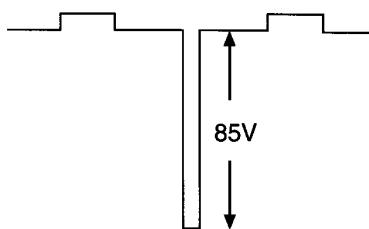


Screen (G2) setting

1. Input a 0 IRE (Black Level) signal from the pattern generator.
2. Enter into the Service Mode "Test""Test" and 38.
3. Adjust the SCREEN VR until the Down arrow is displayed.
4. Adjust the SCREEN VR until the Down arrow just disappears.
5. Press the TV Button on the Remote Commander to store the data.

Drive Level

1. Input a Video signal containing a small area of 100% white on a black background.
2. Connect an oscilloscope to Pin 10 of J701 (R OUT) on the C Board.
3. Set the Picture to maximum using "Test""Test" and 01.
4. Enter into the Service mode (Adjust Menu).
5. Using the Blue and Green buttons select "RED HWB".
6. Using the Red and Yellow buttons on the Remote Commander adjust until the oscilloscope waveform has an amplitude of 85V.

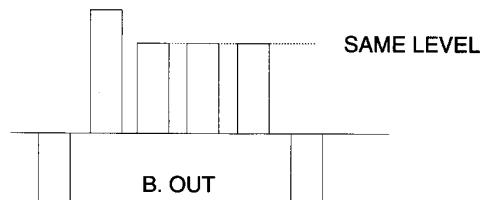


White Balance Adjustment

1. Input an all white pattern from the pattern generator.
2. Adjust the Colour and Brightness controls to the standard level.
3. Enter into the Service Mode.
4. Adjust the Green HWB and Blue HWB so that the White Balance becomes optimum.

Sub Colour Adjustment

1. Input a PAL colour bar pattern from the pattern generator.
2. Connect an oscilloscope to Pin 8 of J701 (B OUT) on the C Board.
3. Enter into the Service Mode "Test""Test" and 22.
4. Using the Red and Yellow buttons on the Remote Commander adjust until the oscilloscope waveform becomes as follows :



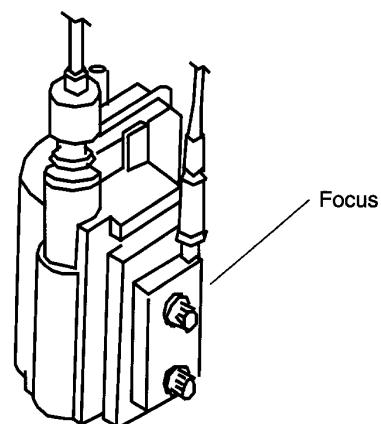
Note : If the TV is able to receive PAL and SECAM transmissions, repeat the above procedure using a Secam colour bar signal.

Sub Brightness Adjustment

1. Input a Philips pattern from the pattern generator.
2. Enter into the Service Mode "Test""Test" and 23.
3. Using the Red and Yellow buttons on the Remote Commander adjust until the 0 IRE of the grey scale and the cut off are only slightly visible on the screen.

3-4. FOCUS

1. Receive a television broadcast.
2. Normalize the picture setting.
3. Adjust the focus control on the flyback transformer to focus the screen centre area properly. Bring only the centre area of the screen into focus, the magenta-ring appears on the screen. In this case, adjust the focus to optimize the screen uniformly.



SECTION 4

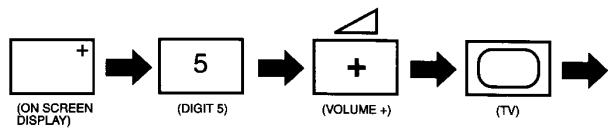
CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied Remote Control Commander RM-836.

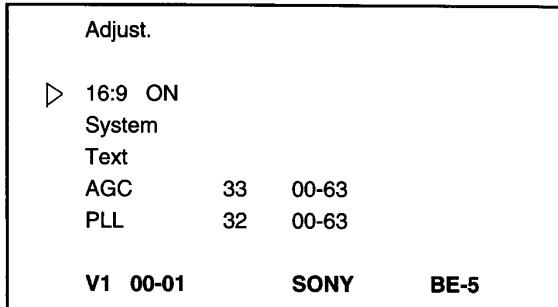
HOW TO ENTER INTO SERVICE MODE

1. Turn on the main power of the set and enter into stand-by mode.
2. Press the following sequence of buttons on the Remote Control Commander.



"TT--" will appear in the top right corner of the screen
Other status information will also be displayed.

3. Press the MENU button on the Remote Commander to obtain the menu on the screen.



Software version

4. Press the Blue (Next) or Green (previous) buttons to select the adjustment item from the table.
5. Press the Yellow (+) or Red (-) buttons to change the data as required.
6. Turn off the power to quit the service mode when adjustments are completed.

Range of adjustments available from the on screen menu system.

Adjustment	Set	Range
V size	21	0 - 63
V breth	32	0 - 63
Pin amp	12	0 - 63
Para. tilt	43	0 - 63
V linear	42	0 - 63
Corner corr	05	0 - 63
H size	34	0 - 63
V pos	00	0 - 63
H phase	42	0 - 63
Blue	26	0 - 63
Green	32	0 - 63
Red	42	0 - 63
HV blk 1	00	0 - 63
HV blk 2	00	0 - 63
V cent	06	0 - 63
Zwei max	36	0 - 63
zwei min	18	0 - 63

4-2. TEST MODE 2:

TT -- Mode is available by pressing the Test button twice, O.S.D 'TT --' appears. The functions described below are available by pressing two digits. To release the 'TT --' mode, press 0 twice, press 'TEST', press 'TV' or switch the TV into Stand-by mode.

00	Switch 'TT--' Mode off.
01	Set picture level to maximum.
02	Set picture level to minimum.
03	Set volume to 35%.
04	Set volume to 50%.
05	Set volume to 65%.
06	Set volume to 80%.
07	Ageing condition (picture max., brightness max.).
08	Shipping condition (Analog values are RESET to factory setting, Prog 1 is selected, TT--mode switched off, Vol = 35%).
09	Dummy.
10	No function.
11	Dummy
12	Dummy.
13	Dummy.
14	Dummy.
15	Read factory setting from ROM to NVM - Reads Volume, Brightness, Picture, Hue, Sharpness and Colour values from ROM to the actual used values (Last Power Memory).
16	Save actual used values as reset values.
17	Enable / Disable Sharpness Operation.
18	Dummy.
19	RGB priority.
20	No function.
21	No function.
22	Sub Colour (Pal / Secam Different Stores)
23	Sub Brightness.
24	RGB priority on.

25	Destination Systems DKE.
26	Destination Systems I/U.
27	Destination System I/I'.
28	Destination BG only.
29	Dummy.
30-31	No function.
32	Picture level to 50%
33-35	No function.
36	Audio mute ON.
37	OSD off.
38	Enter G2 adjustment mode.
39	Sub-brightness
40	No function.
41	Re-initialise NVM.
42	Dummy.
43	Re-initialise Geometry settings.
44-47	Dummy
48	Set NVM testbyte to 44h in NVM.
49	Erase NVM testbyte
50	No function.
51	Toggle 60/100 programs.

Note : For Test Modes 41 - 51, it is necessary to ensure that the TV is set to Prog 59.

DEFLECTION SYSTEM ADJUSTMENT

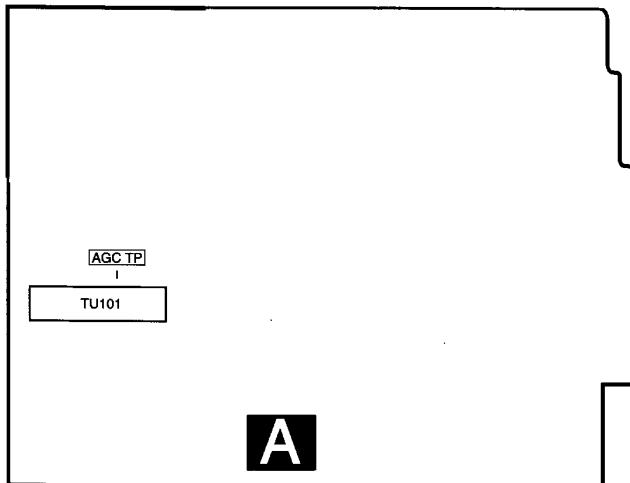
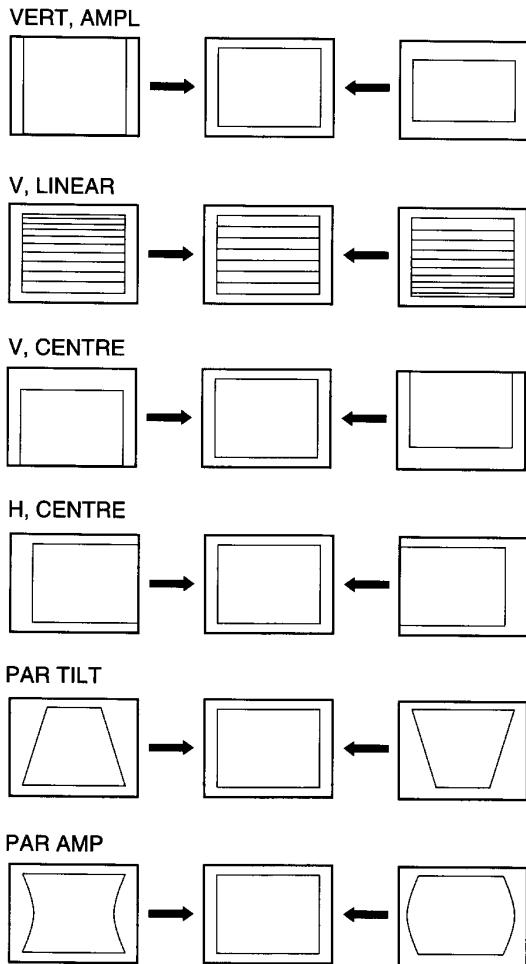
1. Enter into the service mode.
2. Using the Blue or Green buttons select the Adjust item.
3. Press the Yellow button to enter the adjustment submenu.
4. Select and adjust each item in order to obtain the optimum image.

See Note on page 23

Adjustment	Set	Range
V size	21	0 - 63
V breth	32	0 - 63
Pin amp	12	0 - 63
Para. tilt	43	0 - 63
V linear	42	0 - 63
Corner corr	05	0 - 63
H size	34	0 - 63
V pos	00	0 - 63
H phase	42	0 - 63
Blue	26	0 - 63
Green	32	0 - 63
Red	42	0 - 63
HV blk 1	00	0 - 63
HV blk 2	00	0 - 63
V cent	06	0 - 63
Zwei max	36	0 - 63
zwei min	18	0 - 63

AGC ADJUSTMENT

1. Receive a signal of 63dBuV / 75 ohm terminated via the tuner socket.
2. Measure the voltage at AGC TP.
3. Adjust TU101 RV to obtain a voltage of $3.0 \pm 0.3V$.



- A Board Component Side -

4-3. BE-5 SELF DIAGNOSTIC SOFTWARE

The identification of errors within the BE-5 chassis is triggered in 1 of 2 ways :- 1: Bus busy or 2: Device failure to respond to I²C. In the event of one of these situations arising the software will first try to release the Bus if busy (Failure to do so will report with a continuous flashing LED) and then communicate with each relevant device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the LED by a Series of flashes which must be counted (See Table 1), Non fatal errors are reported with this method.

If a fatal error is found, the set will simply stay in whichever state it was when the error occurred, but if a non fatal error occurs the set will try to continue to operate.

To check error code it is necessary to use TV error display part number S-188-900-10.

Table 1

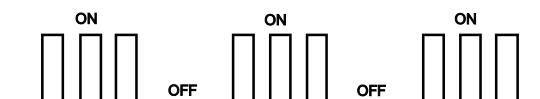
No. of Flashes	Notes	Error code	Description
-		00	No error.
2	(2)	30	Jungle nacks IIC bus1 transmisson.
3	(3)	31	Jungle FAULT (not OK) - flags.
4	(2)	32	Jungle - No H flyback.
-		33	Jungle - Stack overflow.
5	(4)	40	Sound Processor nacks IIC bus1 transmission.
6	(3)	90	Protection input: X-ray protection.
6	(3)	91	Protection error: No V synchro.
7	(1)	10	NVM nacks IIC bus0 transmission.
8	(3)	20	Tuner nacks IIC bus1 transmission.
9	(1)	01	General IIC bus1 error (SDA1 or SCL1 are being held low.)

- (1) Only reported on mains power up.
- (2) Reported on mains power up or exiting standby.
- (3) Reported at any time and result in the set reverting to standby mode.
- (4) Reported at any time and result in the set reverting to audio mute mode.

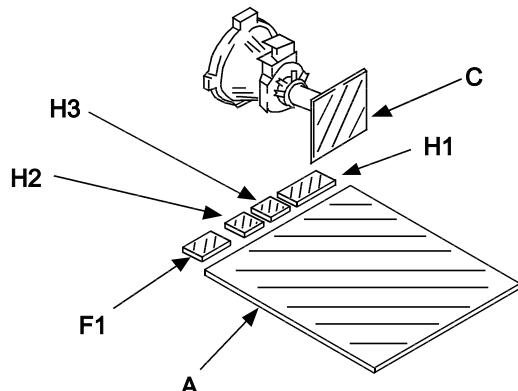
Note : Deflection System Adjustments should not be carried out whilst using an NTSC (60Hz) signal, or if the signal is unlocked.

Flash Timing Example : e.g. error number 3

Stby LED



5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note :

- All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$ 50WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms.
 $\text{k} = 1000$, $\text{M} = 1000\text{K}$
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5 mm
Rating electrical power $\frac{1}{4}$ W

- : nonflammable resistor.
- : internal component.
- : panel designation, or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth - ground.
- : earth - chassis.
- : no mounted.

Note : The components identified by shading and marked are critical for safety. Replace only with the part number specified.

Note : Les composants identifiés par une trame et une marque sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

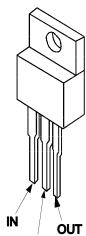
Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: \times	ADJUSTABLE RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

- Readings are taken with a colour-bar signal input.
- Readings are taken with $10\text{M}\Omega$ digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- Circled numbers are waveform references.
- : B+ bus.
- : signal path. (RF)

5-4. SEMICONDUCTORS

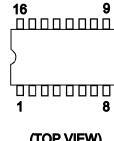
L4941BV
LM7808CT
MC7808CT
TEA7605
TL750L05CLPR



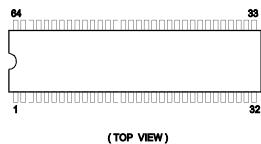
MC44002P



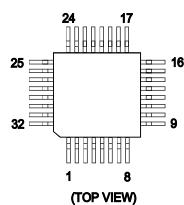
MC44140P



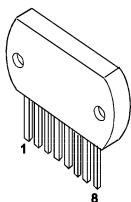
MSP3400C-PP-C6
MSP3410B-PP-F7



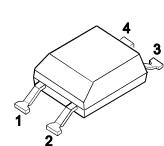
M27C512-90C1-BE5-1



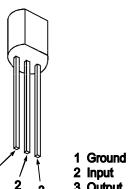
NJM2233BL



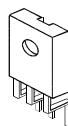
PC123F2
PC123FY2



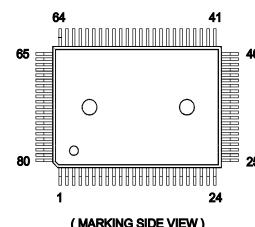
PST572D
PST572D-T



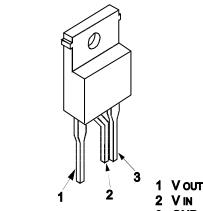
SBX1981-51



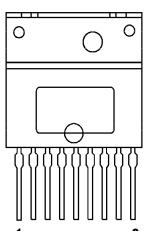
SDA5250M-C9-GEG



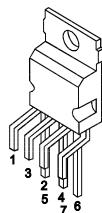
SE-135N
SE135N-LF12



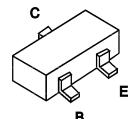
STR-S6707



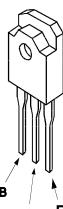
STV9379



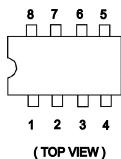
DTA144ESA
DTA144ESA-TP
DTC114EK
DTC114EKA-T146
DTC143TKA-T146
DTC144EKA-T146
2SA1037K-T-146-R
2SA1162-G
2SC2412K-QR
2SC2412K-T-146-R



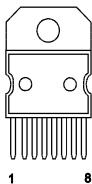
S2000N-16E305A



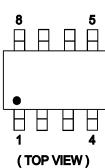
TDA2822M
TEA2124



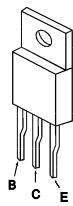
TDA7264



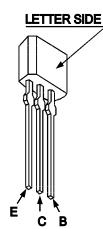
ST24W04FB6



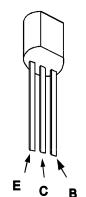
2SA1667
2SC3852A
2SD2394-EF



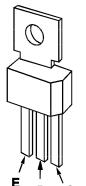
2SA933AS-QRT
2SA933AS-RT
2SC1740S-RT



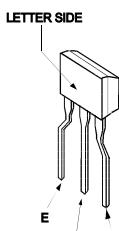
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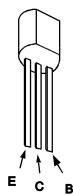
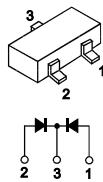
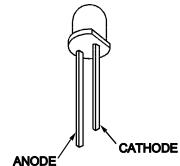
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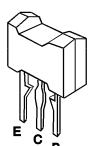
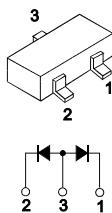
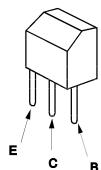
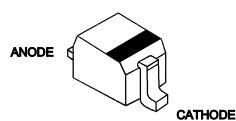
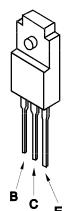
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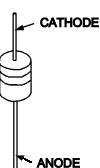
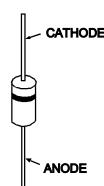
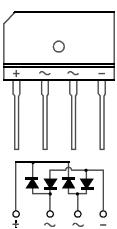
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SEL1210S-D

2SC2808STP-R

DAP202K
DAP202K-T-1462SC3209LK
2SC3209LK-TP
2SD774-T-4
2SD774-34DTZ5.1B
DTZ9.1
RD5.6S-B
UDZ-TE-17-5.1B
UDZ-TE-17-5.6B
UDZ-TE-17-9.1B2SC4793
2SD1763A

ERA81-004TP1	MTZJ-T-77-9.1C
ERA83-006	MTZJ-12A
MTZJ-T-77-12A	MTZJ-33C
MTZJ-T-77-33C	RD3.9ES-B2
MTZJ-T-77-3.9B	MTZJ-6.2B
MTZJ-T-77-5.1	RD5.1ES-B1
MTZJ-T-77-5.6C	RD5.6ESB2
MTZJ-T-77-6.2	RD6.8ES-B2
MTZJ-T-77-6.8A	RD9.1ES-B3
MTZJ-T-77-6.8C	1SS133T-77

BYD33G
BYD33G-AMMO
EG-1Z-V1
EL1Z
ERC06-15S
ERD28-06S
ERD28-08SFMN-G12S
RGP10GPKG23
RU3YX-LF-C4
RU-3YX-V1
RU4AM-T3
1SS292T-77

GBU4JL-6088

SECTION 6

EXPLODED VIEWS

NOTE :

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

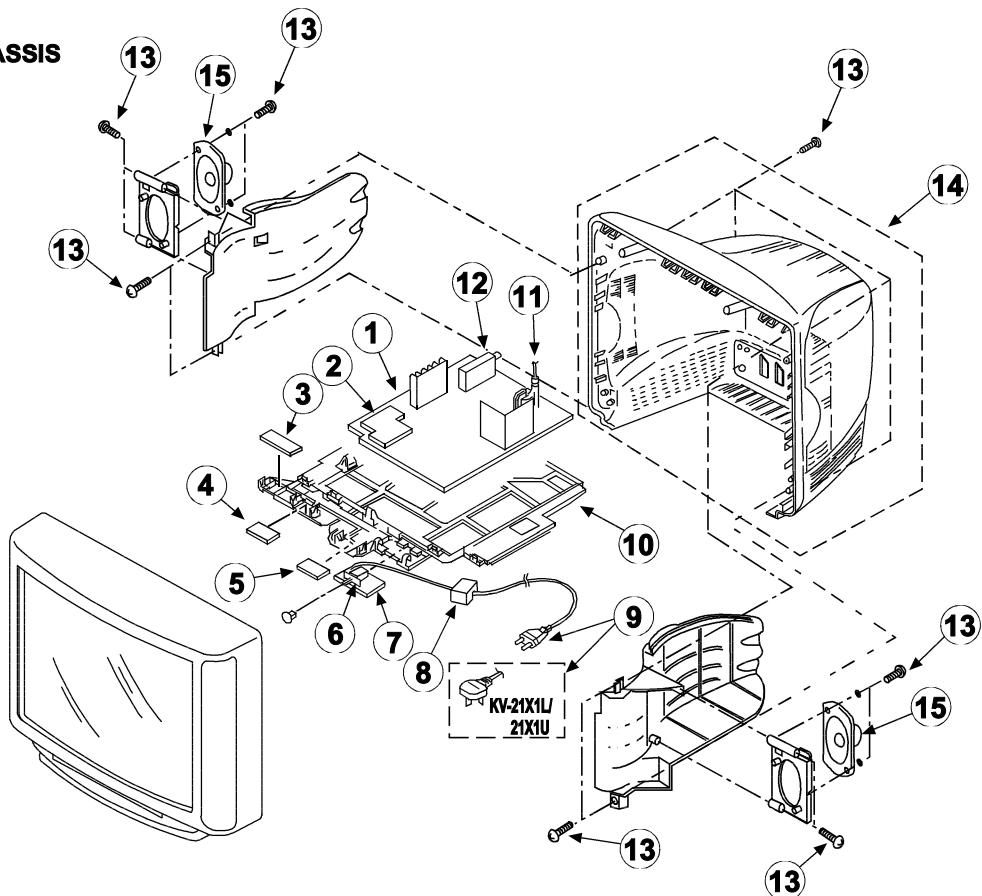
The components identified by shading and marked **⚠** are critical for safety.

Replace only with the part number specified.

Les composants identifiés par une trame et une marque **⚠** sont critiques pour la sécurité.

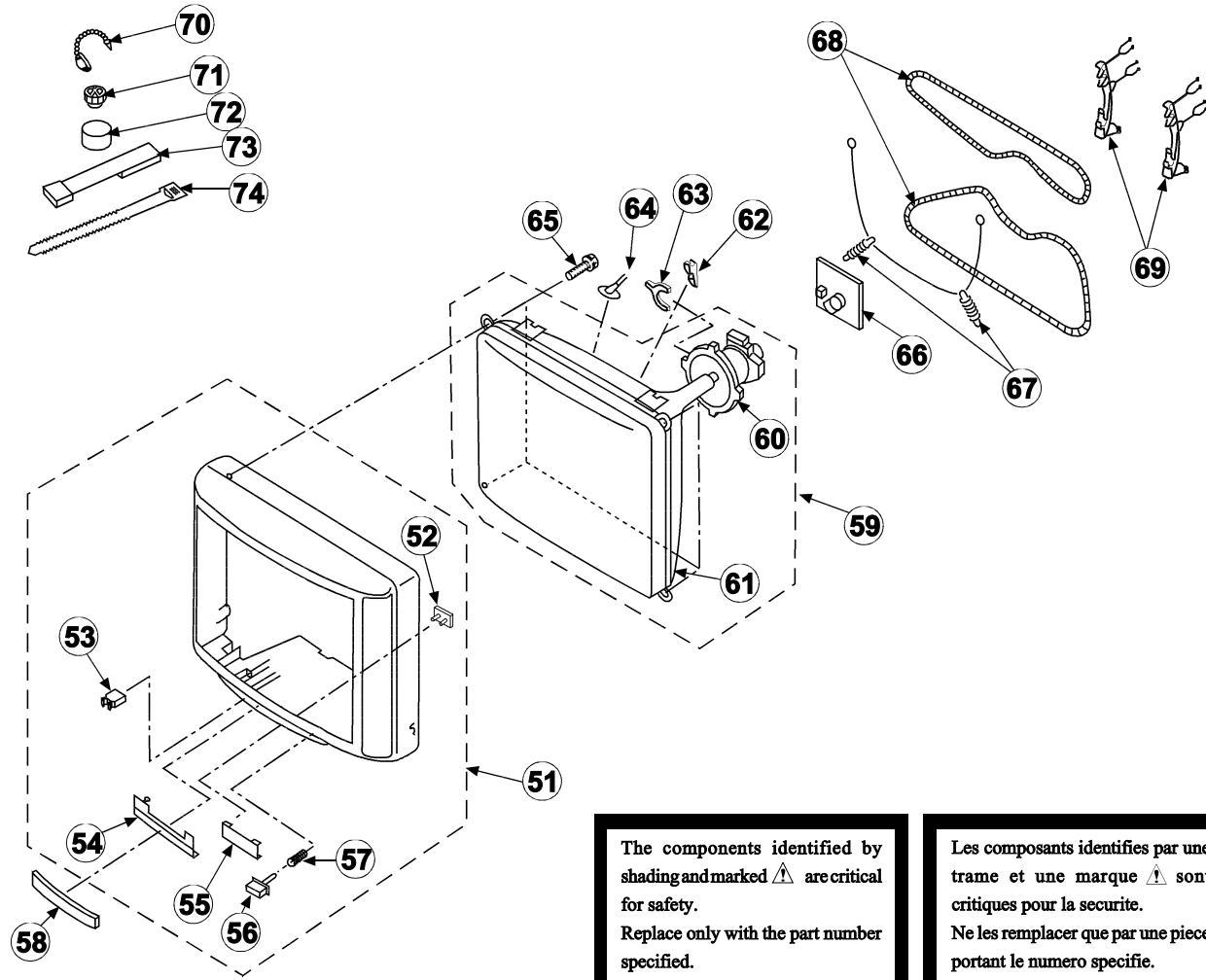
Ne les remplacer que par une pièce portant le numéro spécifié.

6-1. CHASSIS



REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
1	*A-1632-549-A	A AND M BOARD, COMPLETE (KV-21X1A)		7	*A-1624-061-A	F1 BOARD, COMPLETE (KV-21X1A/21X1B/21X1E)	
	*A-1632-547-A	A AND M BOARD, COMPLETE (KV-21X1B)			*A-1624-059-A	F1 BOARD, COMPLETE (KV-21X1D/21X1K/21X1L/21X1R/21X1U)	
	*A-1632-543-A	A AND M BOARD, COMPLETE (KV-21X1D)		8	4-389-201-11	HOLDER, AC CORD	
	*A-1632-548-A	A AND M BOARD, COMPLETE (KV-21X1E)		9	⚠ 1-765-286-11	CORD POWER (KV-21X1A/21X1D/21X1E/21X1K/21X1R)	2.5A/250V
	*A-1632-545-A	A AND M BOARD, COMPLETE (KV-21X1K)			1-765-268-11	CORD, CONNECTION (KV-21X1B)	
	*A-1632-546-A	A AND M BOARD, COMPLETE (KV-21X1L)			1-590-762-11	CORD POWER (WITH PLUG) (KV-21X1L/21X1U)	2.5A/250V
	*A-1632-544-A	A AND M BOARD, COMPLETE (KV-21X1R)		10	*4-203-594-01	BRACKET	
	*A-1632-470-A	A AND M BOARD, COMPLETE (KV-21X1U)		11	1-453-199-11	TRANSFORMER ASSY, FLYBACK (NX-1741/U2A)	
2	*A-1634-042-A	M BOARD, COMPLETE		12	⚠ 1-693-338-11	TUNER (TUVIF) (AEP) (KV-21X1A/21X1D/21X1E/21X1K/21X1L/21X1R)	
3	*A-1646-130-A	H1 BOARD, COMPLETE (KV-21X1A/21X1B/21X1E)			1-693-340-11	TUNER (TUVIF) (FR) (KV-21X1B)	
	*A-1646-118-A	H1 BOARD, COMPLETE (KV-21X1D/21X1K/21X1L/21X1R/21X1U)			1-693-339-11	TUNER (TUVIF) (UK) (KV-21X1U)	
4	*A-1646-132-A	H3 BOARD, COMPLETE (KV-21X1A/21X1B/21X1E)		13	4-039-358-01	SCREW (4X16), (+) EV TAPPING	
	*A-1646-120-A	H3 BOARD, COMPLETE (KV-21X1D/21X1K/21X1L/21X1R/21X1U)		14	X-4200-286-1	COVER ASSY REAR (SC)	
5	*A-1646-131-A	H2 BOARD, COMPLETE (KV-21X1A/21X1B/21X1E)		15	1-504-819-11	SPEAKER (7.5X13CM)	
	*A-1646-119-A	H2 BOARD, COMPLETE (KV-21X1D/21X1K/21X1L/21X1R/21X1U)					
6	⚠ 1-571-433-21	SWITCH PUSH (AC POWER)					

6-2. PICTURE TUBE



REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
51	X-4200-184-1	BEZNET ASSY		66	*A-1638-102-A	C BOARD, COMPLETE	
52	4-202-465-01	GUIDE, LED LIGHT			*A-1638-090-A	(KV-21X1A/21X1B/21X1E)	
53	4-392-036-01	CATCHER PUSH				(KV-21X1D/21X1K/21X1L/21X1R/21X1U)	
54	4-202-642-01	DOOR		67	4-369-318-31	SPRING TENSION	
55	4-202-643-21	WINDOW ORNAMENTAL		68	△ 1-406-828-11	COIL DEGAUSSING	
56	4-202-637-01	BUTTON POWER		69	*4-386-622-11	BAND, DGC	
57	4-202-746-11	SPRING, COMPRESSION		70	4-308-870-00	CLIP, LEAD WIRE	
58	4-202-644-11	ORNAMENT, DOOR		71	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø	
59	△ 8-738-787-71	ITC	60-61	72	1-452-032-00	MAGNET, DISK; 10MM Ø	
60	△ 8-451-295-45	DEFLECTION YOKE (Y21PFA2BA)		73	X-4387-214-1	PERMALLOY ASSY, CORRECTION	
61	△ 8-738-784-05	PICTURE TUBE (SD-169) (A51JXH61X)		74	3-701-007-00	BAND, BINDING	
62	3-704-495-01	SPACER DY					
63	1-452-277-00	MAGNET, BMC					
64	△ 1-540-006-22	CAP ASSY, HIGH-VOLTAGE					
65	4-036-189-01	SCREW (8), PT					

SECTION 7

ELECTRICAL PARTS LIST

The components identified by shading and marked  are critical for safety. Replace only with the part number specified.

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

When indicating parts by reference number, please include the board name.

CAPACITORS	COILS
MF : mF, PF : mmF	MMH : mH, μ H : mH

F1

A and M

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
				C022	1-124-903-11	ELECT 1MF	20% 50V
		*A-1624-061-A F1 BOARD, COMPLETE (KV-21X1A/21X1B/21X1E)		C028	1-163-035-00	CERAMIC CHIP 0.047MF	50V
		*A-1624-059-A F1 BOARD, COMPLETE (KV-21X1D/21X1K/21X1L/21X1R/21X1U)		C029	1-163-077-00	CERAMIC CHIP 0.1MF	50V
		< CONNECTOR >		C034	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
		CN603  *1-580-844-11 PIN, CONNECTOR (POWER)		C035	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
		CN604  *1-695-292-11 PIN, CONNECTOR (POWER)		C036	1-126-965-11	ELECT 22MF	20% 50V
		< FUSE >		C037	1-164-346-11	CERAMIC CHIP 1MF	16V
		F601  1-532-350-00 FUSE (4A 250V)		C038	1-164-346-11	CERAMIC CHIP 1MF	16V
		 *1-533-725-11 HOLDER, FUSE ; F601		C039	1-163-205-00	CERAMIC CHIP 0.001MF	10% 50V
		< SWITCH >		C040	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V
		S601  1-571-433-21 SWITCH, PUSH (AC POWER)		C041	1-126-965-11	ELECT 22MF	20% 50V
		*****		C042	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
		*A-1632-549-A A AND M BOARD, COMPLETE (KV-21X1A)		C044	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
		*****		C050	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
		*A-1632-547-A A AND M BOARD, COMPLETE (KV-21X1B)		C051	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
		*****		C121	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
		*A-1632-543-A A AND M BOARD, COMPLETE (KV-21X1D)		C122	1-163-249-11	CERAMIC CHIP 82PF	5% 50V
		*****		C123	1-163-139-00	CERAMIC CHIP 820PF	5% 50V
		*A-1632-548-A A AND M BOARD, COMPLETE (KV-21X1E)		C124	1-163-249-11	CERAMIC CHIP 82PF	5% 50V
		*****		C131	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
		*A-1632-545-A A AND M BOARD, COMPLETE (KV-21X1K)		C135	1-126-934-11	ELECT 220MF	20% 16V
		*****		C136	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
		*A-1632-546-A A AND M BOARD, COMPLETE (KV-21X1L)		C162	1-126-967-11	ELECT 47MF	20% 16V
		*****		C201	1-126-965-11	ELECT 22MF	20% 50V
		*A-1632-544-A A AND M BOARD, COMPLETE (KV-21X1R)		C202	1-126-965-11	ELECT 22MF	20% 50V
		*****		C204	1-163-038-00	CERAMIC CHIP 0.1MF	25V
		*A-1632-470-A A AND M BOARD, COMPLETE (KV-21X1U)		C205	1-126-964-11	ELECT 10MF	20% 50V
		*****		C206	1-126-933-11	ELECT 100MF	20% 16V
		1-750-797-11 SOCKET, PLCC		C207	1-126-933-11	ELECT 100MF	20% 16V
		4-202-710-11 SPACER, INSULATING		C208	1-126-964-11	ELECT 10MF	20% 50V
		*4-368-683-11 SPRING, TRANSISTOR		C209	1-163-038-00	CERAMIC CHIP 0.1MF	25V
		4-382-854-11 SCREW (M3X10), P, SW (+)		C210	1-163-033-91	CERAMIC CHIP 0.022MF	50V
		< CAPACITOR >		C211	1-126-965-11	ELECT 22MF	20% 50V
C008	1-126-965-11	ELECT 22MF	20% 50V	C214	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C014	1-164-346-11	CERAMIC CHIP 1MF	16V	C215	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C015	1-163-121-00	CERAMIC CHIP 150PF	5% 50V				(KV-21X1B)
C016	1-164-222-11	CERAMIC CHIP 0.22MF	25V	C216	1-163-109-00	CERAMIC CHIP 47PF	5% 50V
C019	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V	C217	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C020	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C218	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C021	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C219	1-126-964-11	ELECT 10MF	20% 50V
				C220	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C221	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
							(KV-21X1B)
				C223	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
				C224	1-163-133-00	CERAMIC CHIP 470PF	5% 50V

The components identified by shading and marked **▲** are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque **▲** sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

A and M

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C225	1-126-964-11	ELECT 10MF	20% 50V	C354	1-163-005-11	CERAMIC CHIP 470PF	10% 50V
C226	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C358	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C227	1-163-084-00	CERAMIC CHIP 1.5PF	0.25PF 50V	C359	1-126-965-11	ELECT 22MF	20% 50V
				C360	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C228	1-163-084-00	CERAMIC CHIP 1.5PF	0.25PF 50V	C401	1-126-967-11	ELECT 47MF	20% 16V
C229	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C402	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C230	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C403	1-164-346-11	CERAMIC CHIP 1MF	16V
C231	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C404	1-164-346-11	CERAMIC CHIP 1MF	16V
C232	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C405	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C233	1-163-003-11	CERAMIC CHIP 330PF	10% 50V	C406	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C234	1-163-003-11	CERAMIC CHIP 330PF	10% 50V	C410	1-126-967-11	ELECT 47MF	20% 16V
C235	1-126-964-11	ELECT 10MF	20% 50V	C413	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C236	1-126-964-11	ELECT 10MF	20% 50V	C415	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C240	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C416	1-126-965-11	ELECT 22MF	20% 50V
		(KV-21X1A/21X1B/21X1E)					
C242	1-164-346-11	CERAMIC CHIP 1MF	16V	C417	1-126-965-11	ELECT 22MF	20% 50V
C243	1-164-346-11	CERAMIC CHIP 1MF	16V	C418	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C244	1-164-346-11	CERAMIC CHIP 1MF	16V	C419	1-164-346-11	CERAMIC CHIP 1MF	16V
C245	1-164-346-11	CERAMIC CHIP 1MF	16V	C420	1-164-346-11	CERAMIC CHIP 1MF	16V
C246	1-126-965-11	ELECT 22MF	20% 50V	C421	1-164-337-11	CERAMIC CHIP 2.2MF	16V
C247	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C422	1-164-337-11	CERAMIC CHIP 2.2MF	16V
C300	1-126-934-11	ELECT 220MF	20% 16V	C423	1-164-337-11	CERAMIC CHIP 2.2MF	16V
C301	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C500	1-130-489-00	FILM 0.033MF	5% 50V
C302	1-163-035-00	CERAMIC CHIP 0.047MF	50V	C501	1-126-963-11	ELECT 4.7MF	20% 50V
C303	1-126-965-11	ELECT 22MF	20% 50V	C502	1-163-077-00	CERAMIC CHIP 0.1MF	50V
C304	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C503	1-126-952-11	ELECT 1000MF	20% 35V
C305	1-124-257-00	ELECT 2.2MF	20% 50V	C504	1-126-968-11	ELECT 100MF	20% 50V
C306	1-107-380-11	FILM 0.0082MF	5% 200V	C505	1-126-941-11	ELECT 470MF	20% 25V
C307	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C506	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C308	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C507	1-126-965-11	ELECT 22MF	20% 50V
C309	1-126-163-11	ELECT 4.7MF	20% 50V	C508	1-130-785-11	MYLAR 0.47MF	10% 100V
C310	1-163-077-00	CERAMIC CHIP 0.1MF	10% 25V	C510	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C312	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C511	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C313	1-163-137-00	CERAMIC CHIP 680PF	5% 50V	C601	▲ 1-136-212-12	FILM 0.1MF	20% 300V
C314	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C602	▲ 1-136-212-12	FILM 0.1MF	20% 300V
C315	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C603	▲ 1-113-937-11	CERAMIC 0.0022MF	20% 250V
C316	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C604	▲ 1-113-937-11	CERAMIC 0.0022MF	20% 250V
C317	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C605	▲ 1-162-599-12	CERAMIC 0.0047MF	250V
C319	1-163-077-00	CERAMIC CHIP 0.1MF	50V	C606	▲ 1-162-599-12	CERAMIC 0.0047MF	250V
C320	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C609	1-102-228-00	CERAMIC 470PF	10% 500V
C321	1-126-963-11	ELECT 4.7MF	20% 50V	C610	1-104-665-11	ELECT 100MF	20% 25V
C322	1-163-101-00	CERAMIC CHIP 22PF	5% 50V	C611	1-136-538-11	FILM 0.001MF	3% 2KV
C323	1-163-099-00	CERAMIC CHIP 18PF	5% 50V	C612	1-107-929-11	ELECT 10MF	20% 100V
C324	1-163-119-00	CERAMIC CHIP 120PF	5% 50V	C613	1-162-318-11	CERAMIC 0.001MF	10% 500V
C325	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C614	1-104-666-11	ELECT 220MF	20% 25V
C326	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C615	1-124-347-00	ELECT 100MF	20% 160V
C327	1-163-005-11	CERAMIC CHIP 470PF	10% 50V	C616	1-162-116-00	CERAMIC 680PF	10% 2KV
C328	1-163-035-00	CERAMIC CHIP 0.047MF	50V	C617	1-107-929-11	ELECT 10MF	20% 100V
C329	1-163-016-00	CERAMIC CHIP 0.0039MF	10% 50V	C618	1-102-228-00	CERAMIC 470PF	10% 500V
C330	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C619	1-126-942-61	ELECT 1000MF	20% 25V
C332	1-126-965-11	ELECT 22MF	20% 50V	C620	1-126-941-11	ELECT 470MF	20% 25V
C333	1-126-965-11	ELECT 22MF	20% 50V	C621	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C341	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C622	1-126-965-11	ELECT 22MF	20% 50V
C345	1-163-139-00	CERAMIC CHIP 820PF	5% 50V	C623	1-124-618-11	ELECT 2200MF	20% 35V
C347	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C624	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C348	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C625	1-126-967-11	ELECT 47MF	20% 50V
		(KV-21X1B)		C626	1-102-228-00	CERAMIC 470PF	10% 500V
C349	1-126-965-11	ELECT 22MF	20% 50V	C627	1-111-097-11	ELECT 0.0022F	20% 35V
		(KV-21X1B)		C628	1-126-964-11	ELECT 10MF	20% 50V
C350	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C629	1-124-455-00	ELECT 100MF	20% 16V
C353	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	C630	1-113-473-11	ELECT(BLOCK) 180MF	20% 400V

A and M

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK				
C632	1-106-220-00	MYLAR	0.1MF	10%	100V	C1217	1-137-366-11	FILM	0.0022MF	5%	50V
C633	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V						
C634	1-104-665-11	ELECT	100MF	20%	25V						
C635	1-111-097-11	ELECT	0.0022F	20%	35V						
C636	1-102-228-00	CERAMIC	470PF	10%	500V						
C638	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	CF200	1-409-327-00	TRAP, CERAMIC (6.5MHZ) (KV-21X1B)			
C639	1-102-228-00	CERAMIC	470PF	10%	500V	CF1001	1-767-120-21	VIBRATOR, CERAMIC (8MHZ)			
C640	1-102-110-00	CERAMIC	220PF	10%	50V						
C641	1-104-797-11	ELECT	0.47MF	20%	100V						
C645	1-104-665-11	ELECT	100MF	20%	25V	CN001	*1-568-880-51	PIN, CONNECTOR 5P			
C800	1-107-650-11	ELECT	3.3MF	20%	250V	CN081	*1-568-881-51	PIN, CONNECTOR 6P			
C801	1-129-746-00	FILM	0.039MF	10%	400V	CN082	*1-568-880-51	PIN, CONNECTOR 5P			
C802	1-136-079-00	FILM	0.01MF	3%	2KV	CN201	*1-568-879-11	PIN, CONNECTOR 4P			
C803	1-136-109-00	FILM	0.68MF	5%	200V	CN402	*1-564-512-11	PLUG, CONNECTOR 9P			
C804	1-124-902-00	ELECT	0.47MF	20%	50V	CN403	*1-568-878-51	PIN, CONNECTOR 3P			
C805	1-102-228-00	CERAMIC	470PF	10%	500V	CN404	*1-568-879-11	PIN, CONNECTOR 4P			
C806	1-102-244-00	CERAMIC	220PF	10%	500V	CN601	▲ *1-695-292-11	PIN, CONNECTOR (POWER)			
C807	1-107-651-11	ELECT	4.7MF	20%	250V	CN602	▲ 1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P			
C809	1-161-754-00	CERAMIC	0.001MF	10%	2KV	CN603	▲ 1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P			
C810	1-129-702-00	FILM	0.001MF	10%	400V	CN801	*1-580-798-11	CONNECTOR PIN (DY) 6P			
C812	1-163-005-11	CERAMIC CHIP	470PF	10%	50V						
C814	1-136-159-00	FILM	0.033MF	5%	50V						
C815	1-162-116-00	CERAMIC	680PF	10%	2KV						
C817	1-136-559-11	MYLAR	0.0047MF	10%	400V						
C818	1-136-933-11	FILM	1MF	5%	100V						
C819	1-162-318-11	CERAMIC	0.001MF	10%	500V						
C820	1-126-951-11	ELECT	470MF	20%	35V						
C822	1-104-696-11	FILM	0.015MF	10%	100V						
C823	1-106-375-12	MYLAR	0.022MF	10%	250V						
C824	1-106-367-00	MYLAR	0.01MF	10%	400V						
C825	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V						
C826	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	D002	8-719-982-27	DIODE MTZJ-33C			
C827	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V	D003	8-719-991-33	DIODE 1SS133T-77			
C828	1-124-903-11	ELECT	1MF	20%	50V	D004	8-719-991-33	DIODE 1SS133T-77			
C1001	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	D005	8-719-914-43	DIODE DAN20K			
C1002	1-126-395-11	ELECT	22MF	20%	16V	D006	8-719-914-43	DIODE DAN20K			
C1003	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	D007	8-719-914-43	DIODE DAN20K			
C1004	1-126-395-11	ELECT	22MF	20%	16V	D009	8-719-976-99	DIODE DTZ5.1B			
C1005	1-164-492-11	CERAMIC CHIP	0.15MF	10%	16V	D011	8-719-976-99	DIODE DTZ5.1B			
C1006	1-163-078-11	CERAMIC CHIP	0.033MF	10%	25V	D015	8-719-914-44	DIODE DAP20K			
C1007	1-163-078-11	CERAMIC CHIP	0.033MF	10%	25V	D201	8-719-976-99	DIODE DTZ5.1B			
C1008	1-163-109-00	CERAMIC CHIP	47PF	5%	50V	D301	8-719-991-33	DIODE 1SS133T-77			
C1009	1-163-109-00	CERAMIC CHIP	47PF	5%	50V	D302	8-719-991-33	DIODE 1SS133T-77			
C1010	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	D307	8-719-991-33	DIODE 1SS133T-77 (KV-21X1B)			
C1011	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	D308	8-719-991-33	DIODE 1SS133T-77 (KV-21X1B)			
C1012	1-163-105-00	CERAMIC CHIP	33PF	5%	50V	D401	8-719-109-97	DIODE RD6.8ES-B2			
C1013	1-126-206-11	ELECT	100MF	20%	6.3V	D402	8-719-109-97	DIODE RD6.8ES-B2			
C1014	1-163-105-00	CERAMIC CHIP	33PF	5%	50V	D403	8-719-109-97	DIODE RD6.8ES-B2			
C1015	1-164-505-11	CERAMIC CHIP	2.2MF		16V	D404	8-719-109-97	DIODE RD6.8ES-B2			
C1016	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	D405	8-719-109-97	DIODE RD6.8ES-B2			
C1017	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	D406	8-719-109-97	DIODE RD6.8ES-B2			
C1200	1-136-165-00	FILM	0.1MF	5%	50V	D412	8-719-109-97	DIODE RD6.8ES-B2			
C1201	1-136-173-00	FILM	0.47MF	5%	50V	D415	8-719-110-14	DIODE RD9.1ES-B3			
C1202	1-136-173-00	FILM	0.47MF	5%	50V	D416	8-719-977-22	DIODE DTZ9.1			
C1203	1-136-169-00	FILM	0.22MF	5%	50V	D417	8-719-977-22	DIODE DTZ9.1			
C1204	1-136-169-00	FILM	0.22MF	5%	50V	D501	8-719-302-43	DIODE EL1Z			
C1205	1-101-004-00	CERAMIC	0.01MF		50V	D602	8-719-991-33	DIODE 1SS133T-77			
C1206	1-101-004-00	CERAMIC	0.01MF		50V	D603	8-719-109-97	DIODE RD6.8ES-B2			
C1207	1-136-173-00	FILM	0.47MF	5%	50V	D604	8-719-302-43	DIODE EL1Z			
C1208	1-137-366-11	FILM	0.0022MF	5%	50V	D605	8-719-302-43	DIODE EL1Z			
C1209	1-136-169-00	FILM	0.22MF	5%	50V	D606	8-719-980-78	DIODE ERA83-006			
C1210	1-136-169-00	FILM	0.22MF	5%	50V	D607	8-719-046-78	DIODE EG-1Z-V1			
C1211	1-101-004-00	CERAMIC	0.01MF		50V	D608	8-719-302-43	DIODE EL1Z			
C1212	1-136-173-00	FILM	0.47MF	5%	50V	D609	8-719-312-10	DIODE RU4AM-T3			
C1213	1-136-173-00	FILM	0.47MF	5%	50V	D610	8-719-025-88	DIODE GBU4JL-6088			
C1214	1-137-366-11	FILM	0.0022MF	5%	50V	D611	8-719-980-78	DIODE ERA83-006			

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A and M

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D612	8-719-046-76	DIODE RU-3YX-V1		IC1004	8-759-440-74	IC M27C512-90C1-BE5-1	
D613	8-719-058-38	DIODE FMN-G12S		IC1200	8-759-250-68	IC TDA7264	
D614	8-719-109-89	DIODE RD5.6ESB2			4-202-373-01	SPRING, IC ; IC1200	
D615	8-719-302-43	DIODE EL1Z				< SOCKET >	
D616	8-719-921-54	DIODE MTZJ-6.2B		J401	1-695-581-11	CONNECTOR, D SUB	
D617	8-719-991-33	DIODE 1SS133T-77				< COIL >	
D619	8-719-980-78	DIODE ERA83-006		L002	1-410-200-31	INDUCTOR CHIP 4.7UH	
D620	8-719-110-14	DIODE RD9.1ES-B3		L108	1-412-522-41	INDUCTOR 5.6UH	
D621	8-719-058-38	DIODE FMN-G12S		L111	1-408-408-00	INDUCTOR 8.2UH	
D622	8-719-991-33	DIODE 1SS133T-77		L112	1-408-397-00	INDUCTOR 1UH	
D623	8-719-921-83	DIODE MTZJ-12A		L113	1-408-408-00	INDUCTOR 8.2UH	
D625	8-719-991-33	DIODE 1SS133T-77		L200	1-408-406-00	INDUCTOR 5.6UH (KV-21X1B)	
D626	8-719-302-43	DIODE EL1Z		L203	1-410-385-11	INDUCTOR CHIP 22UH	
D627	8-719-991-33	DIODE 1SS133T-77		L204	1-410-385-11	INDUCTOR CHIP 22UH	
D801	8-719-950-57	DIODE BYD33G		L301	1-412-002-31	INDUCTOR CHIP 4.7UH	
D802	8-719-302-43	DIODE EL1Z		L302	1-408-607-31	INDUCTOR 22UH	
D803	8-719-945-80	DIODE ERC06-15S		L409	1-408-409-00	INDUCTOR 10UH	
D805	8-719-928-08	DIODE ERD28-08S		L609	1-412-533-21	INDUCTOR 47UH	
D806	8-719-302-43	DIODE EL1Z		L611	1-412-533-21	INDUCTOR 47UH	
D807	8-719-991-33	DIODE 1SS133T-77		L612	1-412-522-41	INDUCTOR 5.6UH	
D809	8-719-302-43	DIODE EL1Z		L613	1-412-522-41	INDUCTOR 5.6UH	
D1200	8-719-109-72	DIODE RD3.9ES-B2		L800	1-412-553-11	INDUCTOR 3.3MMH	
				L801	1-420-872-00	COIL, AIR-CORE	
				L802	1-411-635-11	COIL, AIR-CORE	
				L803	1-459-390-00	COIL (WITH CORE)	
				L804	1-459-105-21	COIL (WITH CORE)	
				L805	1-412-531-31	INDUCTOR 33UH	
				L806	1-459-652-12	HLC	
				L1001	1-408-405-00	INDUCTOR 4.7UH	
						< IC LINK >	
				PS600 ▲	1-532-686-21	LINK, IC 2.7A (ICP-F75)	
				PS601 ▲	1-532-686-21	LINK, IC 2.7A (ICP-F75)	
				PS602 ▲	1-532-686-21	LINK, IC 2.7A (ICP-F75)	
				PS603 ▲	1-532-686-21	LINK, IC 2.7A (ICP-F75)	
						< TRANSISTOR >	
				Q002	8-729-920-74	TRANSISTOR 2SC2412K-QR	
				Q006	8-729-216-22	TRANSISTOR 2SA1162-G	
				Q007	8-729-920-74	TRANSISTOR 2SC2412K-QR	
				Q008	8-729-920-74	TRANSISTOR 2SC2412K-QR	
				Q009	8-729-920-74	TRANSISTOR 2SC2412K-QR	
				Q011	8-729-027-59	TRANSISTOR DTC144EKA-T146	
				Q012	8-729-920-74	TRANSISTOR 2SC2412K-QR	
				Q013	8-729-920-74	TRANSISTOR 2SC2412K-QR	
				Q014	8-729-920-74	TRANSISTOR 2SC2412K-QR	
				Q015	8-729-920-74	TRANSISTOR 2SC2412K-QR	
				Q107	8-729-119-78	TRANSISTOR 2SC2785-HFE	
				Q110	8-729-920-74	TRANSISTOR 2SC2412K-QR	
				Q118	8-729-920-74	TRANSISTOR 2SC2412K-QR	
				Q200	8-729-900-53	TRANSISTOR DTC114EK	
				Q201	8-729-027-56	TRANSISTOR DTC143TKA-T146	
				Q202	8-729-027-56	TRANSISTOR DTC143TKA-T146	
				Q204	8-729-920-74	TRANSISTOR 2SC2412K-QR	
				Q205	8-729-920-74	TRANSISTOR 2SC2412K-QR	
				Q207	8-729-920-74	TRANSISTOR 2SC2412K-QR (KV-21X1B)	
				Q208	8-729-216-22	TRANSISTOR 2SA1162-G (KV-21X1B)	
				Q209	8-729-920-74	TRANSISTOR 2SC2412K-QR (KV-21X1B)	

A and M

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Q210	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR011	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q300	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR012	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q301	8-729-900-53	TRANSISTOR DTC114EK		JR013	1-216-295-00	METAL GLAZE	0 5% 1/10W
Q302	8-729-900-53	TRANSISTOR DTC114EK		JR015	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q303	8-729-900-53	TRANSISTOR DTC114EK		JR016	1-216-295-00	METAL GLAZE	0 5% 1/10W
Q304	8-729-900-53	TRANSISTOR DTC114EK		JR018	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q305	8-729-900-53	TRANSISTOR DTC114EK		JR019	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q306	8-729-900-53	TRANSISTOR DTC114EK		JR020	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q307	8-729-026-41	TRANSISTOR 2SA933AS-QRT (KV-21X1B)		JR021	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q310	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR022	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q311	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR023	1-216-295-00	METAL GLAZE	0 5% 1/10W
Q312	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR024	1-216-295-00	METAL GLAZE	0 5% 1/10W
Q402	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR025	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q403	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR026	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q404	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR028	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q405	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR029	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q406	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR030	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q407	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR032	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q408	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR033	1-216-295-00	METAL GLAZE	0 5% 1/10W
Q500	8-729-017-06	TRANSISTOR 2SC4793		JR034	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q501	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR036	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q601	8-729-025-04	TRANSISTOR 2SC3852A		JR038	1-216-295-00	METAL GLAZE	0 5% 1/10W
Q602	8-729-320-28	TRANSISTOR 2SA1667		JR040	1-216-295-00	METAL GLAZE	0 5% 1/10W
Q603	8-729-027-08	TRANSISTOR 2SC2389STP-R		JR043	1-216-295-00	METAL GLAZE	0 5% 1/10W
Q604	8-729-024-35	TRANSISTOR 2SC2808STP-R		JR046	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q606	8-729-029-56	TRANSISTOR DTA144ESA		JR071	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q608	8-729-027-59	TRANSISTOR DTC144EKA-T146		JR072	1-216-295-00	METAL GLAZE	0 5% 1/10W
Q617	8-729-119-78	TRANSISTOR 2SC2785-HFE		JR1001	1-216-295-00	METAL GLAZE	0 5% 1/10W
Q801	8-729-140-50	TRANSISTOR 2SC3209LK		JR1002	1-216-295-00	METAL GLAZE	0 5% 1/10W
Q802	8-729-033-85	TRANSISTOR S2000N-16E305A		R001	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
Q803	8-729-027-59	TRANSISTOR DTC144EKA-T146		R005	1-216-295-00	METAL GLAZE	0 5% 1/10W
Q804	8-729-019-01	TRANSISTOR 2SD2394-EF		R007	1-216-238-91	METAL GLAZE	47K 5% 1/8W
Q805	8-729-140-96	TRANSISTOR 2SD774-34		R010	1-216-031-00	METAL GLAZE	180 5% 1/10W
Q1200	8-729-920-74	TRANSISTOR 2SC2412K-QR		R012	1-249-437-11	CARBON	47K 5% 1/4W
Q1201	8-729-920-74	TRANSISTOR 2SC2412K-QR		R015	1-216-049-00	METAL GLAZE	1K 5% 1/10W
< RESISTOR >							
JR17	1-216-295-00	METAL GLAZE	0 5% 1/10W	R017	1-216-097-00	METAL GLAZE	100K 5% 1/10W
JR39	1-216-295-00	METAL GLAZE	0 5% 1/10W	R018	1-216-025-00	METAL GLAZE	100 5% 1/10W
JR43	1-216-295-00	METAL GLAZE	0 5% 1/10W	R019	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
JR45	1-216-295-00	METAL GLAZE	0 5% 1/10W	R020	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
JR47	1-216-295-00	METAL GLAZE	0 5% 1/10W	R021	1-216-262-00	METAL GLAZE	470K 5% 1/8W
JR51	1-216-295-00	METAL GLAZE	0 5% 1/10W	R022	1-216-238-91	METAL GLAZE	47K 5% 1/8W
JR52	1-216-295-00	METAL GLAZE	0 5% 1/10W	R023	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
JR55	1-216-295-00	METAL GLAZE	0 5% 1/10W	R025	1-216-091-00	METAL GLAZE	56K 5% 1/10W
JR56	1-216-295-00	METAL GLAZE	0 5% 1/10W	R026	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
JR57	1-216-295-00	METAL GLAZE	0 5% 1/10W	R027	1-216-073-00	METAL GLAZE	10K 5% 1/10W
JR59	1-216-295-00	METAL GLAZE	0 5% 1/10W	R028	1-216-025-00	METAL GLAZE	100 5% 1/10W
JR60	1-216-295-00	METAL GLAZE	0 5% 1/10W	R029	1-216-039-00	METAL GLAZE	390 5% 1/10W
JR61	1-216-295-00	METAL GLAZE	0 5% 1/10W	R030	1-215-900-11	METAL OXIDE	22K 5% 2W F
JR62	1-216-295-00	METAL GLAZE	0 5% 1/10W	R031	1-216-295-00	METAL GLAZE	0 5% 1/10W
JR66	1-216-295-00	METAL GLAZE	0 5% 1/10W	R032	1-216-295-00	METAL GLAZE	0 5% 1/10W
JR69	1-216-295-00	METAL GLAZE	0 5% 1/10W	R034	1-216-073-00	METAL GLAZE	10K 5% 1/10W
JR003	1-216-295-00	METAL GLAZE	0 5% 1/10W	R036	1-216-295-00	METAL GLAZE	0 5% 1/10W
JR004	1-216-295-00	METAL GLAZE	0 5% 1/10W	R037	1-216-093-00	METAL GLAZE	68K 5% 1/10W
JR006	1-216-295-00	METAL GLAZE	0 5% 1/10W	R038	1-216-295-00	METAL GLAZE	0 5% 1/10W
JR007	1-216-295-00	METAL GLAZE	0 5% 1/10W	R040	1-216-089-00	METAL GLAZE	47K 5% 1/10W
JR008	1-216-295-00	METAL GLAZE	0 5% 1/10W	R041	1-216-238-91	METAL GLAZE	47K 5% 1/8W
JR009	1-216-296-00	METAL GLAZE	0 5% 1/8W	R044	1-216-073-00	METAL GLAZE	10K 5% 1/10W
JR010	1-216-296-00	METAL GLAZE	0 5% 1/8W	R045	1-216-081-00	METAL GLAZE	22K 5% 1/10W
				R046	1-216-254-00	METAL GLAZE	220K 5% 1/8W

A and M

REF.NO.	PART NO.	DESCRIPTION	REMARK			REF.NO.	PART NO.	DESCRIPTION	REMARK		
R047	1-216-075-00	METAL GLAZE	12K	5%	1/10W	R222	1-216-001-00	METAL GLAZE	10	5%	1/10W (KV-21X1B)
R049	1-216-041-00	METAL GLAZE	470	5%	1/10W	R223	1-216-041-00	METAL GLAZE	470	5%	1/10W (KV-21X1B)
R050	1-216-089-00	METAL GLAZE	47K	5%	1/10W	R224	1-216-025-00	METAL GLAZE	100	5%	1/10W (KV-21X1B)
R051	1-216-174-00	METAL GLAZE	100	5%	1/8W	R225	1-216-037-00	METAL GLAZE	330	5%	1/10W
R052	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R226	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R053	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	R227	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R064	1-216-222-00	METAL GLAZE	10K	5%	1/8W	R228	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W (KV-21X1B)
R065	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R229	1-216-073-00	METAL GLAZE	10K	5%	1/10W (KV-21X1B)
R066	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R230	1-216-025-00	METAL GLAZE	100	5%	1/10W (KV-21X1B)
R067	1-216-081-00	METAL GLAZE	22K	5%	1/10W	R231	1-216-035-00	METAL GLAZE	270	5%	1/10W (KV-21X1B)
R068	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R236	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R069	1-216-081-00	METAL GLAZE	22K	5%	1/10W	R237	1-216-093-00	METAL GLAZE	68K	5%	1/10W
R070	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R238	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R075	1-216-045-00	METAL GLAZE	680	5%	1/10W	R239	1-216-093-00	METAL GLAZE	68K	5%	1/10W
R076	1-216-089-00	METAL GLAZE	47K	5%	1/10W	R240	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R078	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	R301	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R088	1-216-027-00	METAL GLAZE	120	5%	1/10W	R302	1-216-037-00	METAL GLAZE	330	5%	1/10W
R089	1-216-037-00	METAL GLAZE	330	5%	1/10W	R303	1-216-090-00	METAL GLAZE	51K	5%	1/10W
R090	1-216-043-91	METAL GLAZE	560	5%	1/10W	R304	1-216-025-00	METAL GLAZE	100	5%	1/10W
R097	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	R305	1-216-025-00	METAL GLAZE	100	5%	1/10W
R098	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	R306	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R099	1-216-200-11	METAL GLAZE	1.2K	5%	1/8W	R307	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R110	1-216-174-00	METAL GLAZE	100	5%	1/8W	R308	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R111	1-216-174-00	METAL GLAZE	100	5%	1/8W	R309	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R112	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R310	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R113	1-216-113-00	METAL GLAZE	470K	5%	1/10W	R311	1-216-025-00	METAL GLAZE	100	5%	1/10W
R114	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	R312	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R115	1-216-190-00	METAL GLAZE	470	5%	1/8W	R313	1-216-045-00	METAL GLAZE	680	5%	1/10W
R116	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R314	1-216-045-00	METAL GLAZE	680	5%	1/10W
R117	1-216-222-00	METAL GLAZE	10K	5%	1/8W	R315	1-216-045-00	METAL GLAZE	680	5%	1/10W
R118	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	R316	1-216-033-00	METAL GLAZE	220	5%	1/10W
R119	1-216-031-00	METAL GLAZE	180	5%	1/10W	R317	1-216-033-00	METAL GLAZE	220	5%	1/10W
R120	1-216-041-00	METAL GLAZE	470	5%	1/10W	R318	1-216-019-00	METAL GLAZE	56	5%	1/10W
R124	1-216-025-00	METAL GLAZE	100	5%	1/10W	R322	1-216-022-00	METAL GLAZE	75	5%	1/10W
R125	1-216-025-00	METAL GLAZE	100	5%	1/10W	R323	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R126	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	R325	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R134	1-216-037-00	METAL GLAZE	330	5%	1/10W	R312	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R163	1-216-029-00	METAL GLAZE	150	5%	1/10W	R313	1-216-045-00	METAL GLAZE	680	5%	1/10W
R174	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	R314	1-216-045-00	METAL GLAZE	680	5%	1/10W
R200	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	R315	1-216-045-00	METAL GLAZE	680	5%	1/10W
R201	1-249-389-11	CARBON	4.7	5%	1/4W F	R316	1-216-033-00	METAL GLAZE	220	5%	1/10W
R202	1-216-097-00	METAL GLAZE	100K	5%	1/10W	R317	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R203	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	R318	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R204	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	R328	1-216-093-00	METAL GLAZE	68K	5%	1/10W
R205	1-216-295-00	METAL GLAZE	0	5%	1/10W	R327	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R207	1-249-389-11	CARBON	4.7	5%	1/4W F	R328	1-216-077-00	METAL GLAZE	75	5%	1/10W
R209	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	R329	1-216-093-00	METAL GLAZE	47K	5%	1/10W (KV-21X1A/21X1B/21X1E)
R210	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	R332	1-216-089-00	METAL GLAZE	47K	5%	1/10W (KV-21X1D/21X1K/21X1L/21X1R/21X1U)
R211	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R333	1-216-037-00	METAL GLAZE	330	5%	1/10W
R213	1-216-174-00	METAL GLAZE	100	5%	1/8W	R334	1-216-033-00	METAL GLAZE	220	5%	1/10W
R214	1-216-174-00	METAL GLAZE	100	5%	1/8W	R335	1-216-295-00	METAL GLAZE	0	5%	1/10W
R215	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R336	1-216-295-00	METAL GLAZE	0	5%	1/10W
R218	1-216-037-00	METAL GLAZE	330	5%	1/10W (KV-21X1B)	R337	1-216-295-00	METAL GLAZE	0	5%	1/10W
R219	1-216-049-00	METAL GLAZE	1K	5%	1/10W (KV-21X1B)	R339	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R220	1-216-045-00	METAL GLAZE	680	5%	1/10W (KV-21X1B)	R340	1-216-270-00	METAL GLAZE	1M	5%	1/8W
R221	1-216-033-00	METAL GLAZE	220	5%	1/10W (KV-21X1B)	R341	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
						R342	1-216-189-00	METAL GLAZE	430	5%	1/8W
						R343	1-216-295-00	METAL GLAZE	0	5%	1/10W
						R344	1-216-295-00	METAL GLAZE	0	5%	1/10W

A and M

The components identified by shading and marked **▲** are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque **▲** sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R345	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R502	1-216-677-11	METAL CHIP	12K 0.50% 1/10W
R347	1-216-041-00	METAL GLAZE	470 5% 1/10W (KV-21X1B)	R503	1-216-230-00	METAL GLAZE	22K 5% 1/8W
R348	1-216-073-00	METAL GLAZE	10K 5% 1/10W (KV-21X1B)	R504	1-216-095-00	METAL GLAZE	82K 5% 1/10W
				R505	1-216-075-00	METAL GLAZE	12K 5% 1/10W
R349	1-216-105-91	METAL GLAZE	220K 5% 1/10W (KV-21X1B)	R506	1-216-080-00	METAL GLAZE	20K 5% 1/10W
R350	1-216-033-00	METAL GLAZE	220 5% 1/10W (KV-21X1B)	R507	1-216-350-11	METAL OXIDE	1.2 5% 1W F
R351	1-216-292-11	METAL GLAZE	8.2M 5% 1/8W	R508	1-215-865-11	METAL OXIDE	220 5% 1W F
R352	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R509	1-249-383-11	CARBON	1.5 5% 1/4W F
R354	1-216-033-00	METAL GLAZE	220 5% 1/10W	R510	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R355	1-216-121-91	METAL GLAZE	1M 5% 1/10W				
R356	1-216-119-00	METAL GLAZE	820K 5% 1/10W	R513	1-249-426-11	CARBON	5.6K 5% 1/4W
R357	1-216-093-00	METAL GLAZE	68K 5% 1/10W (KV-21X1A/21X1B/21X1E)	R514	1-216-089-00	METAL GLAZE	47K 5% 1/10W
	1-216-089-00	METAL GLAZE	47K 5% 1/10W (KV-21X1D/21X1K/21X1L/21X1R/21X1U)	R515	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R359	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R601 ▲	1-202-962-11	WIREWOUND	3.3 5% 10W
R360	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R602	1-249-417-11	CARBON	1K 5% 1/4W
R361	1-216-022-00	METAL GLAZE	75 5% 1/10W				
R362	1-216-022-00	METAL GLAZE	75 5% 1/10W	R603	1-215-898-11	METAL OXIDE	10K 5% 2W F
R363	1-216-022-00	METAL GLAZE	75 5% 1/10W	R604	1-215-902-11	METAL OXIDE	47K 5% 2W F
R364	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R605	1-216-364-11	METAL OXIDE	0.39 5% 2W F
R365	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R607	1-215-858-00	METAL OXIDE	15 5% 1W F
R366	1-216-041-00	METAL GLAZE	470 5% 1/10W	R608	1-216-365-00	METAL OXIDE	0.47 5% 2W F
R367	1-216-081-00	METAL GLAZE	22K 5% 1/10W				
R368	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R609	1-249-420-11	CARBON	1.8K 5% 1/4W
R369	1-216-238-91	METAL GLAZE	47K 5% 1/8W	R610	1-249-415-11	CARBON	680 5% 1/4W
R401	1-216-041-00	METAL GLAZE	470 5% 1/10W	R611	1-216-354-11	METAL OXIDE	2.7 5% 1W F
R402	1-247-807-31	CARBON	100 5% 1/4W	R612 ▲	1-260-135-11	CARBON	1M 5% 1/2W
R403	1-247-807-31	CARBON	100 5% 1/4W	R613	1-249-417-11	CARBON	1K 5% 1/4W
R404	1-216-022-00	METAL GLAZE	75 5% 1/10W				
R405	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R614 ▲	1-218-265-11	METAL	8.2M 5% 1W
R406	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R615	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R407	1-216-095-00	METAL GLAZE	82K 5% 1/10W	R616	1-215-479-00	METAL	270K 1% 1/4W
R408	1-216-095-00	METAL GLAZE	82K 5% 1/10W	R617	1-215-877-11	METAL OXIDE	22K 5% 1W F
R409	1-216-095-00	METAL GLAZE	82K 5% 1/10W	R618	1-247-863-91	CARBON	22K 5% 1/4W
R410	1-216-171-00	METAL GLAZE	75 5% 1/8W				
R411	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R619	1-249-424-11	CARBON	3.9K 5% 1/4W
R412	1-216-041-00	METAL GLAZE	470 5% 1/10W	R620	1-247-895-91	CARBON	470K 5% 1/4W
R413	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R621	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R414	1-260-311-11	CARBON	39 5% 1/2W	R622	1-249-437-11	CARBON	47K 5% 1/4W
R415	1-260-311-11	CARBON	39 5% 1/2W	R623	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R416	1-216-022-00	METAL GLAZE	75 5% 1/10W	R632	1-247-807-31	CARBON	100 5% 1/4W
R417	1-216-174-00	METAL GLAZE	100 5% 1/8W	R634	1-249-397-11	CARBON	22 5% 1/4W F
R418	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R635	1-249-437-11	CARBON	47K 5% 1/4W
R419	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R636	1-249-417-11	CARBON	1K 5% 1/4W
R420	1-247-807-31	CARBON	100 5% 1/4W	R637	1-247-815-91	CARBON	220 5% 1/4W
R411	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R638	1-247-863-91	CARBON	22K 5% 1/4W
R412	1-216-041-00	METAL GLAZE	470 5% 1/10W	R645	1-249-422-11	CARBON	2.7K 5% 1/4W
R413	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R646	1-249-382-11	CARBON	1.2 5% 1/4W F
R414	1-260-311-11	CARBON	39 5% 1/2W	R647	1-202-933-61	FUSIBLE	0.1 10% 1/2W F
R415	1-260-311-11	CARBON	39 5% 1/2W	R648	1-249-407-11	CARBON	150 5% 1/4W
R416	1-216-022-00	METAL GLAZE	75 5% 1/10W				
R417	1-216-174-00	METAL GLAZE	100 5% 1/8W	R651	1-215-902-11	METAL OXIDE	47K 5% 2W F
R418	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R800	1-215-887-00	METAL OXIDE	150 5% 2W F
R419	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R801	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R420	1-247-807-31	CARBON	100 5% 1/4W	R802	1-216-174-00	METAL GLAZE	100 5% 1/8W
R421	1-247-807-31	CARBON	100 5% 1/4W	R803	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R422	1-216-093-00	METAL GLAZE	68K 5% 1/10W				
R423	1-216-093-00	METAL GLAZE	68K 5% 1/10W	R804	1-215-917-11	METAL OXIDE	1K 5% 3W F
R424	1-216-093-00	METAL GLAZE	68K 5% 1/10W	R805	1-215-897-11	METAL OXIDE	6.8K 5% 2W F
R425	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R806	1-216-349-00	METAL OXIDE	1 5% 1W F
R426	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R807	1-249-399-11	CARBON	33 5% 1/4W
R427	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R808	1-260-115-11	CARBON	22K 5% 1/2W
R428	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W				
R429	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R809	1-216-476-11	METAL OXIDE	180 5% 3W F
R430	1-216-009-00	METAL GLAZE	22 5% 1/10W	R810	1-247-895-91	CARBON	470K 5% 1/4W
R501	1-208-806-11	METAL CHIP	10K 0.50% 1/10W	R811	1-216-455-11	METAL OXIDE	560 5% 2W F
				R813	1-216-295-00	METAL GLAZE	0 5% 1/10W
				R814	1-217-811-11	FUSIBLE	0.47 5% 1/4W
				R815	1-216-101-00	METAL GLAZE	150K 5% 1/10W

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Ne les remplacer que par une pièce portant le numéro spécifié.

A and M

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REF.NO.	PART NO.	DESCRIPTION	REMARK		REF.NO.	PART NO.	DESCRIPTION	REMARK					
R816	1-216-366-00	METAL OXIDE	0.56	5%	2W	F	R1212	1-249-424-11	CARBON	3.9K	5%	1/4W	
R817	1-216-447-00	METAL OXIDE	27	5%	2W	F				< RELAY >			
R818	1-260-115-11	CARBON	22K	5%	1/2W		RY600 ▲	1-755-018-11	RELAY				
R819	1-249-441-11	CARBON	100K	5%	1/4W					< TRANSFORMER >			
R820	1-217-820-11	FUSIBLE	3.3K	5%	1/4W		T601 ▲	1-427-962-21	TRANSFORMER, LINE FILTER				
R821	1-216-295-00	METAL GLAZE	0	5%	1/10W		T602 ▲	1-429-840-11	TRANSFORMER, CONVERTER				
R822	1-216-107-00	METAL GLAZE	270K	5%	1/10W		T801	1-437-090-31	HDT				
R823	1-249-413-11	CARBON	470	5%	1/4W		T802 ▲	1-453-199-11	TRANSFORMER ASSY, FLYBACK (NX-1741/U2A)				
R824	1-216-125-00	METAL GLAZE	1.5M	5%	1/10W					< THERMISTOR >			
R825	1-216-105-91	METAL GLAZE	220K	5%	1/10W		TEP601 ▲	1-809-827-11	THERMISTOR, POSITIVE				
R826	1-216-296-00	METAL GLAZE	0	5%	1/8W					< TUNER >			
R828	1-216-115-00	METAL GLAZE	560K	5%	1/10W		TU101	1-693-338-11	TUNER/VIF (AEP)				
R841	1-217-371-00	FUSIBLE	0.47	10%	1/4W			1-693-340-11	TUNER/VIF (FR) (KV-21X1B)				
R1001	1-216-025-00	METAL GLAZE	100	5%	1/10W			1-693-339-11	TUNER/VIF (UK) (KV-21X1U)				
R1002	1-216-095-00	METAL GLAZE	82K	5%	1/10W					< CRYSTAL >			
R1003	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W		X201	1-760-628-11	VIBRATOR, CRYSTAL (18.432MHz)				
R1004	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W		X301	1-760-907-21	VIBRATOR, CRYSTAL (14.318MHz)				
R1005	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W		X302	1-760-710-21	VIBRATOR, CRYSTAL (17.472MHz)				
R1006	1-216-129-00	METAL GLAZE	2.2M	5%	1/10W					*****			
R1009	1-216-025-00	METAL GLAZE	100	5%	1/10W					*A-1634-042-A M BOARD, COMPLETE			
R1010	1-216-025-00	METAL GLAZE	100	5%	1/10W					*****			
R1011	1-216-025-00	METAL GLAZE	100	5%	1/10W					1-750-797-11 SOCKET, PLCC			
R1012	1-216-025-00	METAL GLAZE	100	5%	1/10W					< CAPACITOR >			
R1013	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W								
R1014	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W								
R1015	1-216-025-00	METAL GLAZE	100	5%	1/10W								
R1016	1-216-025-00	METAL GLAZE	100	5%	1/10W								
R1017	1-216-025-00	METAL GLAZE	100	5%	1/10W								
R1019	1-216-025-00	METAL GLAZE	100	5%	1/10W								
R1020	1-216-025-00	METAL GLAZE	100	5%	1/10W								
R1021	1-216-025-00	METAL GLAZE	100	5%	1/10W								
R1022	1-216-025-00	METAL GLAZE	100	5%	1/10W								
R1023	1-216-025-00	METAL GLAZE	100	5%	1/10W								
R1024	1-216-025-00	METAL GLAZE	100	5%	1/10W		C1001	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V		
R1025	1-216-025-00	METAL GLAZE	100	5%	1/10W		C1002	1-126-395-11	ELECT 22MF	20%	16V		
R1026	1-216-025-00	METAL GLAZE	100	5%	1/10W		C1003	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V		
R1027	1-216-025-00	METAL GLAZE	100	5%	1/10W		C1004	1-126-395-11	ELECT 22MF	20%	16V		
R1028	1-216-025-00	METAL GLAZE	100	5%	1/10W		C1005	1-164-492-11	CERAMIC CHIP 0.15MF	10%	16V		
R1029	1-216-025-00	METAL GLAZE	100	5%	1/10W			C1006	1-163-078-11	CERAMIC CHIP 0.033MF	10%	25V	
R1030	1-216-025-00	METAL GLAZE	100	5%	1/10W			C1007	1-163-078-11	CERAMIC CHIP 0.033MF	10%	25V	
R1031	1-216-025-00	METAL GLAZE	100	5%	1/10W			C1008	1-163-109-00	CERAMIC CHIP 47PF	5%	50V	
R1032	1-216-025-00	METAL GLAZE	100	5%	1/10W			C1009	1-163-109-00	CERAMIC CHIP 47PF	5%	50V	
R1033	1-216-025-00	METAL GLAZE	100	5%	1/10W			C1010	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V	
R1034	1-216-025-00	METAL GLAZE	100	5%	1/10W			C1011	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
R1035	1-216-025-00	METAL GLAZE	100	5%	1/10W			C1012	1-163-105-00	CERAMIC CHIP 33PF	5%	50V	
R1036	1-216-025-00	METAL GLAZE	100	5%	1/10W			C1013	1-126-206-11	ELECT 100MF	20%	6.3V	
R1037	1-216-025-00	METAL GLAZE	100	5%	1/10W			C1014	1-163-105-00	CERAMIC CHIP 33PF	5%	50V	
R1038	1-216-025-00	METAL GLAZE	100	5%	1/10W			C1015	1-164-505-11	CERAMIC CHIP 2.2MF		16V	
R1039	1-216-025-00	METAL GLAZE	100	5%	1/10W			C1016	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
R1040	1-216-025-00	METAL GLAZE	100	5%	1/10W			C1200	1-136-165-00	FILM 0.1MF	5%	50V	
R1041	1-216-025-00	METAL GLAZE	100	5%	1/10W			C1201	1-136-173-00	FILM 0.47MF	5%	50V	
R1042	1-216-025-00	METAL GLAZE	100	5%	1/10W			C1202	1-136-173-00	FILM 0.47MF	5%	50V	
R1043	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W			C1203	1-136-169-00	FILM 0.22MF	5%	50V	
R1200	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W			C1204	1-136-169-00	FILM 0.22MF	5%	50V	
R1201	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W			C1205	1-101-004-00	CERAMIC 0.01MF		50V	
R1202	1-216-081-00	METAL GLAZE	22K	5%	1/10W			C1206	1-101-004-00	CERAMIC 0.01MF		50V	
R1203	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W			C1215	1-136-173-00	FILM 0.47MF	5%	50V	
R1208	1-212-849-00	FUSIBLE	4.7	5%	1/4W	F		C1216	1-137-366-11	FILM 0.0022MF	5%	50V	
R1209	1-212-849-00	FUSIBLE	4.7	5%	1/4W	F		C1217	1-137-366-11	FILM 0.0022MF	5%	50V	
R1211	1-249-424-11	CARBON	3.9K	5%	1/4W								

M C

The components identified by shading and marked **▲** are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque **▲** sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK				
< FILTER >											
CF1001	1-767-120-21	VIBRATOR, CERAMIC (8MHz)		R1042	1-216-025-00	METAL GLAZE	100 5% 1/10W				
< FERRITE BEAD >											
FB1001	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH		R1043	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W				
FB1002	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH		*****							
FB1003	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH		*A-1638-102-A	C BOARD, COMPLETE	(KV-21X1A/21X1B/21X1E)					
< IC >											
IC1002	8-759-440-72	IC SDA5250M-C9-GEG		*A-1638-090-A	C BOARD, COMPLETE	(KV-21X1D/21X1K/21X1L/21X1R/21X1U)					
IC1003	8-759-432-32	IC ST24W04FM6TR		*****							
IC1004	8-759-440-74	IC M27C512-90C1-BE5-1		*****							
IC1200	8-759-250-68	IC TDA7264		*****							
	4-202-373-01	SPRING, IC ; IC1200		*****							
< COIL >											
L1001	1-408-405-00	INDUCTOR	4.7UH	C701	1-102-117-00	CERAMIC	820PF 10% 50V				
< RESISTOR >											
JR1001	1-216-295-00	METAL GLAZE	0 5% 1/10W	C702	1-102-117-00	CERAMIC	820PF 10% 50V				
JR1002	1-216-295-00	METAL GLAZE	0 5% 1/10W	C703	1-102-117-00	CERAMIC	820PF 10% 50V				
R1001	1-216-025-00	METAL GLAZE	100 5% 1/10W	C704	1-102-824-00	CERAMIC	470PF 5% 50V				
R1002	1-216-095-00	METAL GLAZE	82K 5% 1/10W	C705	1-102-824-00	CERAMIC	470PF 5% 50V				
R1003	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	*****							
R1004	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	*****							
R1005	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	*****							
R1006	1-216-129-00	METAL GLAZE	2.2M 5% 1/10W	*****							
R1009	1-216-025-00	METAL GLAZE	100 5% 1/10W	*****							
R1010	1-216-025-00	METAL GLAZE	100 5% 1/10W	*****							
R1011	1-216-025-00	METAL GLAZE	100 5% 1/10W	*****							
R1012	1-216-025-00	METAL GLAZE	100 5% 1/10W	*****							
R1013	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	*****							
R1014	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	*****							
R1015	1-216-025-00	METAL GLAZE	100 5% 1/10W	*****							
R1016	1-216-025-00	METAL GLAZE	100 5% 1/10W	*****							
R1017	1-216-025-00	METAL GLAZE	100 5% 1/10W	*****							
R1019	1-216-025-00	METAL GLAZE	100 5% 1/10W	*****							
R1020	1-216-025-00	METAL GLAZE	100 5% 1/10W	*****							
R1021	1-216-025-00	METAL GLAZE	100 5% 1/10W	*****							
R1022	1-216-025-00	METAL GLAZE	100 5% 1/10W	*****							
R1023	1-216-025-00	METAL GLAZE	100 5% 1/10W	*****							
R1024	1-216-025-00	METAL GLAZE	100 5% 1/10W	*****							
R1025	1-216-025-00	METAL GLAZE	100 5% 1/10W	*****							
R1026	1-216-025-00	METAL GLAZE	100 5% 1/10W	*****							
R1027	1-216-025-00	METAL GLAZE	100 5% 1/10W	*****							
R1028	1-216-025-00	METAL GLAZE	100 5% 1/10W	*****							
R1029	1-216-025-00	METAL GLAZE	100 5% 1/10W	*****							
R1030	1-216-025-00	METAL GLAZE	100 5% 1/10W	*****							
R1031	1-216-025-00	METAL GLAZE	100 5% 1/10W	*****							
R1032	1-216-025-00	METAL GLAZE	100 5% 1/10W	*****							
R1033	1-216-025-00	METAL GLAZE	100 5% 1/10W	*****							
R1034	1-216-025-00	METAL GLAZE	100 5% 1/10W	*****							
R1035	1-216-025-00	METAL GLAZE	100 5% 1/10W	*****							
R1036	1-216-025-00	METAL GLAZE	100 5% 1/10W	*****							
R1037	1-216-025-00	METAL GLAZE	100 5% 1/10W	*****							
R1038	1-216-025-00	METAL GLAZE	100 5% 1/10W	*****							
R1039	1-216-025-00	METAL GLAZE	100 5% 1/10W	*****							
R1040	1-216-025-00	METAL GLAZE	100 5% 1/10W	*****							
R1041	1-216-025-00	METAL GLAZE	100 5% 1/10W	*****							
< COIL >											
L702	1-408-425-00	INDUCTOR	220UH	*****							
< DIODE >											
D701	8-719-991-33	DIODE 1SS133T-77		*****							
D702	8-719-991-33	DIODE 1SS133T-77		*****							
D703	8-719-991-33	DIODE 1SS133T-77		*****							
D704	8-719-991-33	DIODE 1SS133T-77		*****							
D705	8-719-991-33	DIODE 1SS133T-77		*****							
D706	8-719-991-33	DIODE 1SS133T-77		*****							
D707	8-719-991-33	DIODE 1SS133T-77		*****							
D708	8-719-991-33	DIODE 1SS133T-77		*****							
D709	8-719-991-33	DIODE 1SS133T-77		*****							
D716	8-719-991-33	DIODE 1SS133T-77		*****							
D717	8-719-054-81	DIODE 1SS292T-77		*****							
D718	8-719-991-33	DIODE 1SS133T-77		*****							
D719	8-719-054-81	DIODE 1SS292T-77		*****							
D723	8-719-991-33	DIODE 1SS133T-77		*****							
D724	8-719-054-81	DIODE 1SS292T-77		*****							
< CRT SOCKET >											
J701	▲ 1-526-990-22	SOCKET, CRT		*****							
< COIL >											
L702	1-408-425-00	INDUCTOR	220UH	*****							
< TRANSISTOR >											
Q701	8-729-119-78	TRANSISTOR 2SC2785-HFE		*****							
Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE		*****							
Q703	8-729-119-78	TRANSISTOR 2SC2785-HFE		*****							
Q704	8-729-906-70	TRANSISTOR BF871-127		*****							
Q705	8-729-906-70	TRANSISTOR BF871-127		*****							
Q706	8-729-906-70	TRANSISTOR BF871-127		*****							

C	H1	H2	H3
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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Q707	8-729-200-17	TRANSISTOR 2SA1091-0					
Q708	8-729-200-17	TRANSISTOR 2SA1091-0					
Q709	8-729-200-17	TRANSISTOR 2SA1091-0					
< RESISTOR >							
R700	1-249-405-11	SOLID	100	10%	1/4W		
R701	1-249-417-11	CARBON	1K	5%	1/4W		
R702	1-249-417-11	CARBON	1K	5%	1/4W		
R706	1-249-399-11	CARBON	33	5%	1/4W		
R707	1-249-401-11	CARBON	47	5%	1/4W		
R708	1-247-815-91	CARBON	220	5%	1/4W		
R709	1-247-815-91	CARBON	220	5%	1/4W		
R710	1-247-815-91	CARBON	220	5%	1/4W		
R711	1-249-417-11	CARBON	1K	5%	1/4W		
R714	1-249-417-11	CARBON	1K	5%	1/4W		
R715	1-249-417-11	CARBON	1K	5%	1/4W		
R716	1-249-417-11	CARBON	1K	5%	1/4W		
R717	1-260-105-11	CARBON	3.3K	5%	1/2W		
R718	1-260-105-11	CARBON	3.3K	5%	1/2W		
R719	1-260-105-11	CARBON	3.3K	5%	1/2W		
R720	1-215-923-00	METAL OXIDE	10K	5%	3W F		
R721	1-215-923-00	METAL OXIDE	10K	5%	3W F		
R722	1-215-923-00	METAL OXIDE	10K	5%	3W F		
R724	1-202-814-11	SOLID	33K	10%	1/2W		
R725	1-202-846-00	SOLID	470K	10%	1/2W		
R729	1-216-355-11	METAL OXIDE	3.3	5%	1W F		
R730	1-249-410-11	CARBON	270	5%	1/4W		
R731	1-247-815-91	CARBON	220	5%	1/4W		
R732	1-249-410-11	CARBON	270	5%	1/4W		
R734	1-247-815-91	CARBON	220	5%	1/4W		
R735	1-247-815-91	CARBON	220	5%	1/4W		
R736	1-247-815-91	CARBON	220	5%	1/4W		
R744	1-260-103-11	CARBON	2.2K	5%	1/2W		
R745	1-260-103-11	CARBON	2.2K	5%	1/2W		
R746	1-260-103-11	CARBON	2.2K	5%	1/2W		
< VARIABLE RESISTOR >							
RV702	1-241-656-21	RES, ADJ, METAL FILM 110M					

*A-1646-130-A H1 BOARD, COMPLETE (KV-21X1A/21X1B/ ***** 21X1E)							
*A-1646-118-A H1 BOARD, COMPLETE (KV-21X1D/21X1K/ ***** 21X1L/21X1R/ 21X1U)							
< CAPACITOR >							
C900	1-101-810-00	CERAMIC	100PF	5%	500V		
C901	1-101-810-00	CERAMIC	100PF	5%	500V		
C902	1-137-372-11	FILM	0.022MF	5%	50V		
C903	1-137-372-11	FILM	0.022MF	5%	50V		
< CONNECTOR >							
CN902	1-568-678-11	TERMINAL BLOCK, S 3P					
CN906	*1-564-512-11	PLUG, CONNECTOR 9P					
< JACK >							
J900	1-764-606-11	JACK					

< COIL >							
L900	1-408-409-00	INDUCTOR			10UH		
L901	1-408-409-00	INDUCTOR			10UH		
L902	1-408-409-00	INDUCTOR			10UH		
L903	1-408-409-00	INDUCTOR			10UH		
< RESISTOR >							
R909	1-249-437-11	CARBON			47K 5% 1/4W		
R910	1-249-437-11	CARBON			47K 5% 1/4W		

*A-1646-131-A H2 BOARD, COMPLETE (KV-21X1A/21X1B/ ***** 21X1E)							
*A-1646-119-A H2 BOARD, COMPLETE (KV-21X1D/21X1K/ ***** 21X1L/21X1R/ 21X1U)							
< CAPACITOR >							
C904	1-104-665-11	ELECT			100MF	20%	25V
C905	1-126-964-11	ELECT			10MF	20%	50V
< CONNECTOR >							
CN907	*1-568-879-11	PIN, CONNECTOR 4P					
< DIODE >							
D901	8-719-302-45	DIODE SEL12108-D					
*4-203-258-01 HOLDER, LED ; D901							
< IC >							
IC900	8-742-014-00	RECEIVER HIC SBX1981-51					
< RESISTOR >							
R900	1-249-417-11	CARBON			1K 5% 1/4W		
R908	1-249-401-11	CARBON			47 5% 1/4W		

*A-1646-132-A H3 BOARD, COMPLETE (KV-21X1A/21X1B/ ***** 21X1E)							
*A-1646-120-A H3 BOARD, COMPLETE (KV-21X1D/21X1K/ ***** 21X1L/21X1R/ 21X1U)							
< CONNECTOR >							
CN908	*1-568-878-51	PIN, CONNECTOR 3P					
< RESISTOR >							
R911	1-247-843-11	CARBON			3.3K 5% 1/4W		
R912	1-249-429-11	CARBON			10K 5% 1/4W		
R913	1-247-843-11	CARBON			3.3K 5% 1/4W		
R914	1-249-429-11	CARBON			10K 5% 1/4W		
< SWITCH >							
S900	1-692-979-11	SWITCH, TACTILE					
S901	1-692-979-11	SWITCH, TACTILE					
S902	1-692-979-11	SWITCH, TACTILE					

The components identified by shading and marked **▲** are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque **▲** sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
MISCELLANEOUS *****							
▲ 1-406-828-11 COIL, DEGAUSSING 1-452-032-00 MAGNET, DISC; 10MM Ø 1-452-094-00 MAGNET, ROTATABLE DISK; 15MM Ø 1-452-277-00 MAGNET, EMC ▲ 1-453-199-11 TRANSFORMER ASSY, FLYBACK (NX-1741/U2A) ▲ 1-504-819-11 SPEAKER (7.5X13CM) ▲ 1-540-006-22 CAP ASSY, HIGH-VOLTAGE ▲ 1-571-433-21 SWITCH, PUSH (AC POWER) ▲ 1-765-286-11 CORD, POWER (KV-21X1A/21X1D/21X1E/21X1K/21X1R) 2.5A/250V ▲ 1-765-268-11 CORD, CONNECTION (KV-21X1B) ▲ 1-590-762-11 CORD, POWER (WITH PLUG) (KV-21X1L/21X1U) 2.5A/250V 1-693-338-11 TUNER (TUVIF) (AEP) (KV-21X1A/21X1D/21X1E/21X1K/21X1L/21X1R) 1-693-340-11 TUNER (TUVIF) (FR) (KV-21X1B) 1-693-339-11 TUNER (TUVIF) (UK) (KV-21X1U) ▲ 8-738-784-05 PICTURE TUBE (SD-169) (A51JXH61X) ▲ 8-738-787-71 ITC ▲ 8-451-295-45 DEFLECTION YOKE (Y21PFA2BA)							

ACCESSORIES AND PACKING MATERIALS *****							
*4-042-477-01 BAG, PROTECTION (KV-21X1A/21X1B/21X1E) *4-039-905-02 BAG, PROTECTION (KV-21X1D/21X1K/21X1L/21X1R/21X1U) *4-044-002-01 CUSHION (UPPER) (ASSY) *4-044-003-01 CUSHION (LOWER) (ASSY) *4-044-004-01 INDIVIDUAL CARTON 4-203-592-41 MANUAL, INSTRUCTION (KV-21X1A) (ITALIAN) 4-203-592-51 MANUAL, INSTRUCTION (KV-21X1B) 4-203-592-11 MANUAL, INSTRUCTION (KV-21X1D) (GERMAN/ENGLISH/DUTCH/ITALIAN/FRENCH/GREEK/TURKISH) 4-203-592-71 MANUAL, INSTRUCTION (KV-21X1E) (SPANISH) 4-203-591-81 MANUAL, INSTRUCTION (KV-21X1E) (PORTUGUESE) 4-203-591-91 MANUAL, INSTRUCTION (KV-21X1K) (ENGLISH/POLISH/CZECH) 4-203-xxx-91 MANUAL, INSTRUCTION (KV-21X1R) (ENGLISH/RUSSIAN/BULGARAN) 4-203-591-61 MANUAL, INSTRUCTION (KV-21X1L/21X1U) (ENGLISH)							
REMOTE COMMANDER *****							
1-473-194-11 COMMANDER, STANDARD TYPE (RM-836)							

9-974-938-01

**Sony Corporation
Consumer A & V Products Company
TV & Display Products Div.**

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SERVICE MANUAL

BE-5 CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.	MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-21X1A	RM-836	Italian	SCC-K31B-A	KV-21X1K	RM-836	OIRT	SCC-K35A-A
KV-21X1B	RM-836	French	SCC-K36A-A	KV-21X1L	RM-836	Irish	SCC-K35B-A
KV-21X1D	RM-836	AEP	SCC-K32D-A	KV-21X1R	RM-836	OIRT	SCC-K34A-A
KV-21X1E	RM-836	Spanish	SCC-K30B-A	KV-21X1U	RM-836	UK	SCC-K33A-A

SUPPLEMENT - 1

SUBJECT : DELETION OF M BOARD

File this supplement with the service manual

INTRODUCTION : M Board has been deleted from above models.

• **SECTION 5 DIAGRAMS**

- (A Board, Page 35) See page 3
- (C Board, Page 45) See page 8
- (H1 Board, Page 48) See page 2
- (H2 Board, Page 48) See page 2

• **SECTION 6 EXPLODED VIEWS**

- 6-1. CHASSIS (Page 52) See page 9
- 6-2. PICTURE TUBE (Page 53) ... See page 10

• **SECTION 7 ELECTRICAL PARTS LIST (Page 54) See page 11**



TRINITRON® COLOR TV
SONY®

SECTION 6

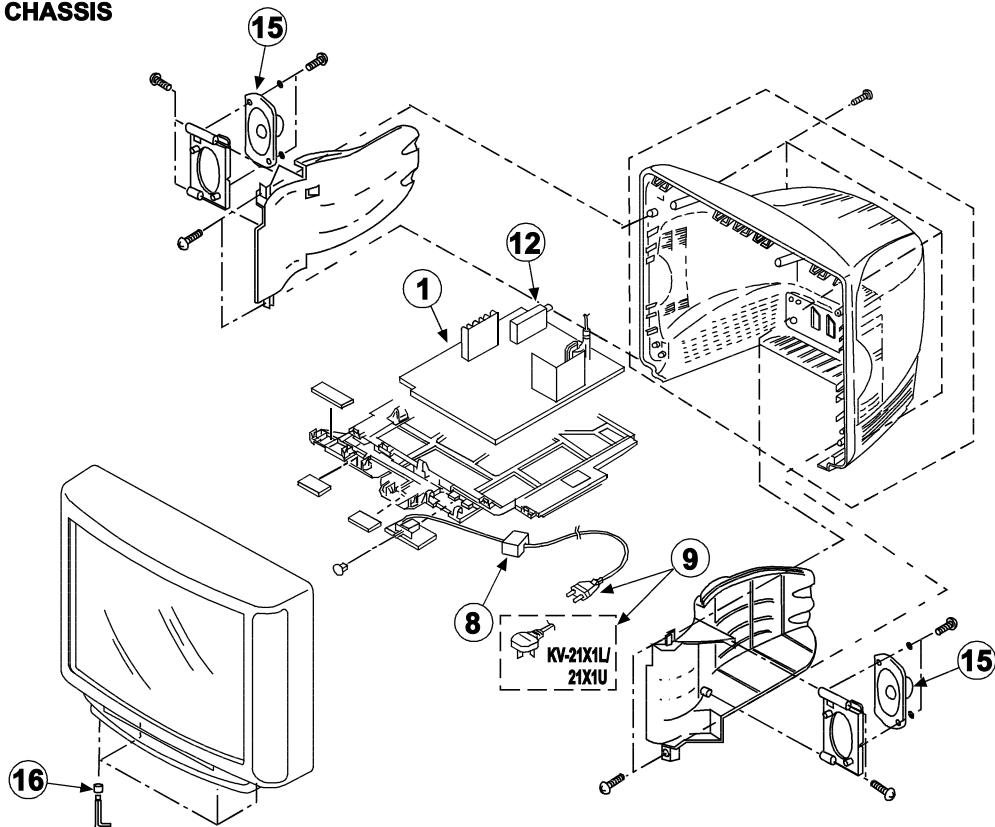
EXPLODED VIEWS

NOTE :

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

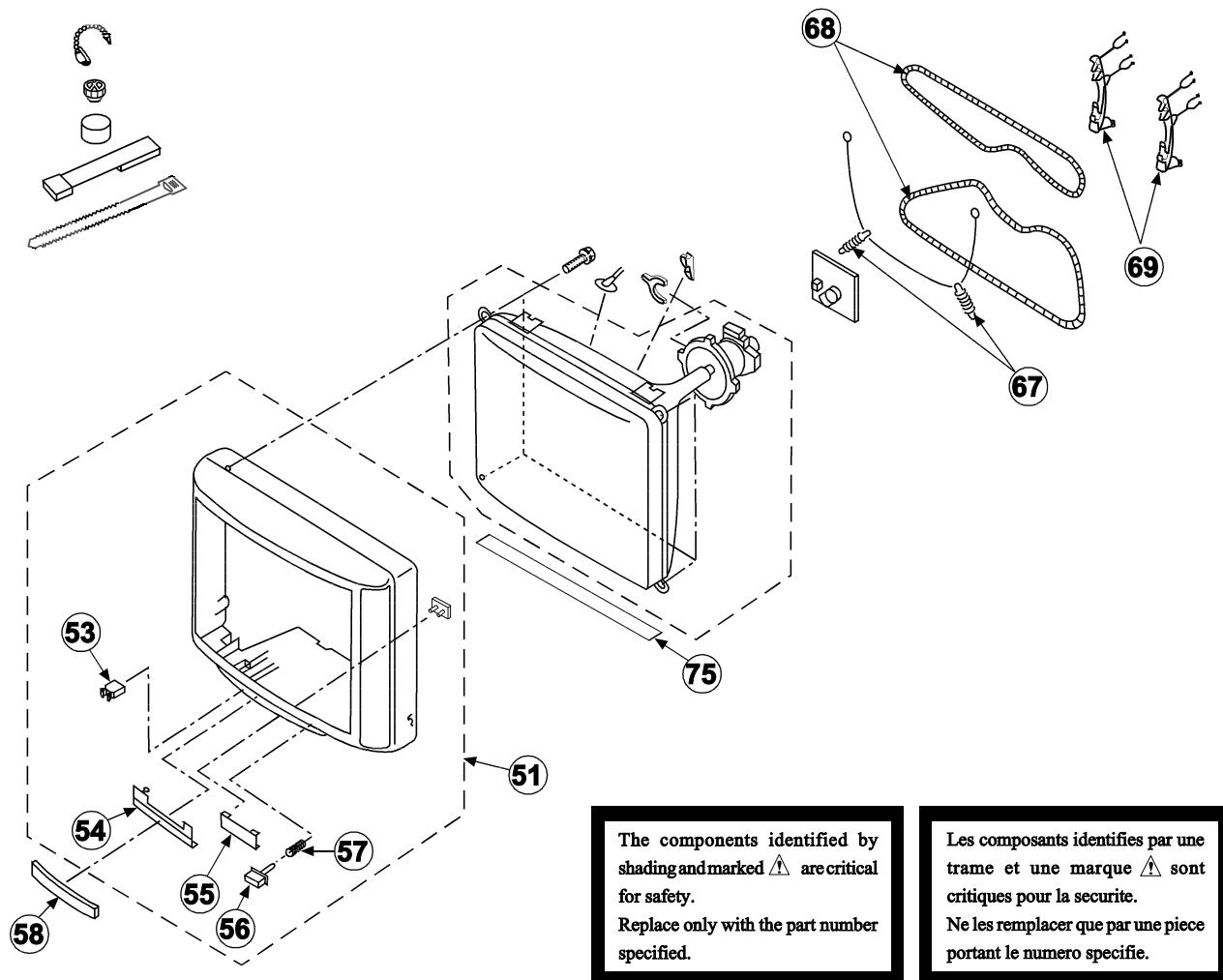
The components identified by shading and marked **▲** are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque **▲** sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

6-1. CHASSIS


REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
1	*A-1632-695-A	A BOARD, COMPLETE (KV-21X1A)					
2	*A-1634-042-A	M BOARD, COMPLETE (DELETED)					
8	4-389-201-01	HOLDER, AC CORD (KV-21X1D/21X1K/21X1L/21X1R/21X1U)					
9	▲ 1-765-268-11 ▲ 1-776-204-11	CORD, POWER (KV-21X1B) CORD, POWER (WITH PLUG) 2.5A/250V (KV-21X1L/21X1U)					
12	1-693-340-11	TUNER (TUVIF) (KV-21X1U)					
15	1-544-727-21	SPEAKER (7.5X13CM)					
16	4-203-385-01	M4 INSERT (KV-21X1L/21X1U)					

6-2. PICTURE TUBE



REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
51	X-4200-297-1 X-4200-298-1	BEZNET ASSY (KV-21X1A/21X1B/21X1E) BEZNET ASSY (KV-21X1D/21X1K/21X1L/21X1R/21X1U)		67	4-369-318-21	SPRING TENSION (KV-21X1A/21X1B/21X1E)	
53	4-047-464-01	CATCHER PUSH		68	4-200-433-01	SPRING TENSION (KV-21X1D/21X1K/21X1L/21X1R/21X1U)	
54	4-043-526-01	DOOR (KV-21X1A/21X1B/21X1E)		69	1-411-922-11	COIL DEGAUSSING (KV-21X1A/21X1B/21X1E)	
55	4-043-525-01	WINDOW ORNAMENTAL (KV-21X1A/21X1B/21X1E)		75	*4-386-622-01	BAND, DGC (KV-21X1D/21X1K/21X1L/21X1R/21X1U)	
56	4-043-517-01	BUTTON POWER		75	4-203-128-01	SHEET, BLOTTING (KV-21X1A/21X1B/21X1E)	
57	4-202-746-01	SPRING, COMPRESSION (KV-21X1A/21X1B/21X1E)		75	4-203-128-11	SHEET BLOTTING (KV-21X1D/21X1K/21X1L/21X1R/21X1U)	
58	4-043-527-01 4-202-644-01	ORNAMENT, DOOR (KV-21X1A/21X1B/21X1E) ORNAMENT, DOOR (KV-21X1D/21X1K/21X1R)					

SECTION 7

ELECTRICAL PARTS LIST

The components identified by shading and marked  are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

CAPACITORS **COILS**
MF : mF, PF : mmF **MMH : mH, μ H : mH**

A

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
*A-1632-695-A	A BOARD, COMPLETE (KV-21X1A) *****			C345	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
	< CAPACITOR >			C350	DELETED		
C002	1-126-968-11	ELECT 100MF	20% 50V	C355	1-163-059-91	CERAMIC CHIP 0.01MF	10% 50V
C003	1-164-492-11	CERAMIC CHIP 0.15MF	10% 16V	C358	DELETED		
C004	1-163-034-00	CERAMIC CHIP 0.033MF	50V	C414	1-126-967-11	ELECT 47MF	20% 16V
C005	1-163-105-00	CERAMIC CHIP 33PF	5% 50V	C424	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C006	1-163-105-00	CERAMIC CHIP 33PF	5% 50V	C425	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C007	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C500	1-137-465-11	FILM 0.056MF	5% 50V
C009	1-126-961-11	ELECT 2.2MF	20% 50V	C603	▲ 1-117-700-61	CERAMIC 0.0022MF	99% 250V
C011	1-163-109-00	CERAMIC CHIP 47PF	5% 50V	C604	▲ 1-117-700-61	CERAMIC 0.0022MF	99% 250V
C012	1-163-113-00	CERAMIC CHIP 68PF	5% 50V	C620	1-111-041-11	ELECT 0.001MF	20% 16V
C013	1-163-078-11	CERAMIC CHIP 0.033MF	10% 25V	C623	1-111-034-11	ELECT 220MF	20% 16V
C016	DELETED			C629	1-126-933-11	ELECT 100MF	20% 16V
C017	1-162-638-11	CERAMIC CHIP 1MF	16V	C630	1-117-751-11	ELECT 220MF	20% 450V
C018	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C631	1-124-910-11	ELECT 47MF	20% 50V
C022	1-126-960-11	ELECT 1MF	20% 50V	C632	1-130-785-11	MYLAR 0.47MF	10% 100V
C024	1-126-965-11	ELECT 22MF	20% 50V	C638	1-163-205-00	CERAMIC CHIP 0.001MF	10% 50V
C025	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C641	1-130-783-00	MYLAR 0.33MF	10% 100V
C026	1-126-965-11	ELECT 22MF	20% 50V	C645	1-104-666-11	ELECT 220MF	20% 25V
C027	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C646	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C028	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C647	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C030	1-163-077-00	CERAMIC CHIP 0.1MF	50V	C804	1-126-959-11	ELECT 0.47MF	20% 50V
C045	1-164-505-11	CERAMIC CHIP 2.2MF	16V	C809	1-162-134-11	CERAMIC 470PF	10% 2KV
C046	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	C812	1-163-121-11	CERAMIC CHIP 150PF	5% 50V
C050	DELETED			C813	1-162-115-00	CERAMIC 330PF	10% 2KV
C051	DELETED			C815	1-162-134-11	CERAMIC 470PF	10% 2KV
C099	1-165-320-11	CERAMIC CHIP 0.47MF	10% 16V	C827	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V
C202	1-126-941-11	ELECT 470MF	20% 25V	C828	1-126-960-11	ELECT 1MF	20% 50V
C204	DELETED			C1001	DELETED		
C205	1-126-963-11	ELECT 4.7MF	20% 50V	C1002	DELETED		
C208	1-126-963-11	ELECT 4.7MF	20% 50V	C1003	DELETED		
C209	DELETED			C1004	DELETED		
C213	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C1005	DELETED		
C300	1-126-942-61	ELECT 1000MF	20% 25V	C1006	DELETED		
C302	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C1007	DELETED		
C306	1-136-164-00	FILM 0.082MF	5% 50V	C1008	DELETED		
C307	1-163-077-00	CERAMIC CHIP 0.1MF	10% 25V	C1009	DELETED		
C308	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1010	DELETED		
C325	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1011	DELETED		
C326	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V	C1012	DELETED		
C328	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C1013	DELETED		
C333	DELETED			C1014	DELETED		
				C1015	DELETED		
				C1016	DELETED		

A

The components identified by shading and marked **A** are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque **A** sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C1017	DELETED						
		< FILTER >					< COIL >
CF001	1-767-120-21	VIBRATOR, CERAMIC		L001	1-408-405-00	INDUCTOR	4.7UH
CF1001	DELETED			L002	DELETED		
		< CONNECTOR >		L108	1-414-740-21	INDUCTOR	4.7UH
CN001	*1-564-508-11	PIN, CONNECTOR 5P		L301	1-410-989-11	INDUCTOR CHIP	0.47UH
CN403	*1-564-518-11	PIN, CONNECTOR 3P		L302	1-410-396-41	INDUCTOR	0.45UH
CN404	*1-564-519-11	PIN, CONNECTOR 4P					
CN602	A DELETED			L405	1-408-409-00	INDUCTOR	10UH
		< DIODE >		L406	1-408-409-00	INDUCTOR	10UH
D003	8-719-914-43	DIODE DAN202K		L407	1-408-409-00	INDUCTOR	10UH
D009	8-719-976-99	DIODE UDV-TE-5.1B		L408	1-408-409-00	INDUCTOR	10UH
D011	8-719-976-99	DIODE UDV-TE-5.1B		L409	1-410-985-11	INDUCTOR CHIP	0.22UH
D012	8-719-992-02	DIODE RB705D		L410	1-408-409-00	INDUCTOR	10UH
D014	8-719-056-84	DIODE UDV-TE-7.5B		L411	1-408-409-00	INDUCTOR	10UH
D015	DELETED			L412	1-410-985-11	INDUCTOR CHIP	0.22UH
D201	DELETED			L501	1-412-525-31	INDUCTOR	10UH
D306	8-719-976-80	DIODE UDV-TE-5.1B		L609	1-414-743-21	INDUCTOR	47UH
D307	8-719-914-43	DIODE DAN202K (KV-21X1B)		L611	1-414-743-21	INDUCTOR	47UH
D338	8-719-991-33	DIODE DAN202K		L1001	DELETED		
D413	8-719-991-33	DIODE 1SS133T-77					< TRANSISTOR >
D414	8-719-056-84	DIODE UDV-TE-7.5B		Q002	8-729-120-28	TRANSISTOR 2SC1623	
D416	8-719-056-84	DIODE UDV-TE-7.5B		Q007	8-729-120-28	TRANSISTOR 2SC1623	
D417	8-719-056-84	DIODE UDV-TE-7.5B		Q008	8-729-120-28	TRANSISTOR 2SC1623	
D421	8-719-109-97	DIODE RD6.8ES-B2		Q009	8-729-120-28	TRANSISTOR 2SC1623	
D606	8-719-028-89	DIODE EK04-V1		Q011	1-801-806-11	TRANSISTOR DTC144EKA	
D611	8-719-028-89	DIODE EK04-V1					
D614	8-719-109-97	DIODE RD6.8ES		Q012	8-729-120-28	TRANSISTOR 2SC1623	
D616	8-719-110-03	DIODE RD7.5ES		Q013	8-729-120-28	TRANSISTOR 2SC1623	
D619	8-719-028-89	DIODE EK04-V1		Q014	8-729-120-28	TRANSISTOR 2SC1623	
D623	8-719-924-16	DIODE MTZJ-T-77-24 (KV-21X1A/21X1B/21X1D/21X1E/21X1K/21X1L/21X1R)		Q015	DELETED		
	8-719-110-60	DIODE RD24ES (KV-21X1U)		Q110	8-729-120-28	TRANSISTOR 2SC1623	
		< FERRITE BEAD >		Q118	8-729-120-28	TRANSISTOR 2SC1623	
FB001	1-412-911-11	INDUCTOR, FERRITE BEAD		Q204	8-729-120-28	TRANSISTOR 2SC1623	
FB002	1-412-911-11	INDUCTOR, FERRITE BEAD		Q205	8-729-120-28	TRANSISTOR 2SC1623	
FB003	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH		Q207	8-729-120-28	TRANSISTOR 2SC1623	
FB1001	DELETED			Q209	8-729-120-28	TRANSISTOR 2SC1623	
FB1002	DELETED			Q210	8-729-120-28	TRANSISTOR 2SC1623	
FB1003	DELETED			Q300	8-729-120-28	TRANSISTOR 2SC1623	
		< IC >		Q310	8-729-120-28	TRANSISTOR 2SC1623	
IC001	8-759-473-01	IC SDA5255		Q311	8-729-120-28	TRANSISTOR 2SC1623	
IC002	8-759-437-34	IC ST24W04FB6		Q312	8-729-120-28	TRANSISTOR 2SC1623	
IC200	8-759-493-49	IC MSP3410D-PB-84 (KV-21X1B/21X1E/21X1L/21X1U)		Q402	8-729-120-28	TRANSISTOR 2SC1623	
IC604	8-759-457-41	IC KA76L05Z		Q403	8-729-120-28	TRANSISTOR 2SC1623	
IC1002	DELETED			Q404	8-729-120-28	TRANSISTOR 2SC1623	
IC1003	DELETED			Q405	8-729-120-28	TRANSISTOR 2SC1623	
IC1004	DELETED			Q406	8-729-120-28	TRANSISTOR 2SC1623	
		< SOCKET >		Q407	8-729-120-28	TRANSISTOR 2SC1623	
J401	1-695-551-11	SOCKET, 21P (KV-21X1A/21X1B/21X1E)		Q408	8-729-120-28	TRANSISTOR 2SC1623	
	1-561-534-00	SOCKET, 21P (KV-21X1D/21X1K/21X1L/21X1R/21X1U)		Q409	8-729-120-28	TRANSISTOR 2SC1623	
				Q410	8-729-026-49	TRANSISTOR 2SA1037AK	
				Q411	8-729-120-28	TRANSISTOR 2SC1623	
				Q501	8-729-120-28	TRANSISTOR 2SC1623	
				Q608	8-729-027-56	TRANSISTOR DTC143TKA-T146	
				Q802	8-729-041-25	TRANSISTOR S2055N-16E305A (KV-21X1A/21X1B/21X1E)	
				Q803	1-801-806-11	TRANSISTOR DTC144EKA	
				Q1200	8-729-120-28	TRANSISTOR 2SC1623	
				Q1201	8-729-120-28	TRANSISTOR 2SC1623	

A

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Replace only with the part number specified.

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Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK				
< RESISTOR >											
R002	1-216-025-00	METAL GLAZE	100 5% 1/10W	R351	1-216-463-11	METAL GLAZE	8.2M 5% 1/10W				
R003	1-216-025-00	METAL GLAZE	100 5% 1/10W	R352	DELETED						
R004	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R356	DELETED						
R005	1-216-174-00	METAL GLAZE	100 5% 1/8W	R357	DELETED						
R006	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R407	1-216-691-11	METAL CHIP	47K 0.50% 1/10W				
R007	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R408	1-216-691-11	METAL CHIP	47K 0.50% 1/10W				
R013	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R409	1-216-691-11	METAL CHIP	47K 0.50% 1/10W				
R014	1-249-071-00	METAL GLAZE	8.2K 5% 1/10W	R410	1-216-022-00	METAL GLAZE	75 5% 1/10W				
R015	DELETED			R422	1-216-691-11	METAL GLAZE	47K 0.50% 1/10W				
R016	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R423	1-216-691-11	METAL GLAZE	47K 0.50% 1/10W				
R017	1-216-095-00	METAL GLAZE	82K 5% 1/10W	R424	1-216-691-11	METAL GLAZE	47K 0.50% 1/10W				
R020	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R425	1-216-651-11	METAL CHIP	1K 0.50% 1/10W				
R021	1-216-258-00	METAL GLAZE	330K 5% 1/8W	R426	1-216-651-11	METAL CHIP	1K 0.50% 1/10W				
R022	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R427	1-216-651-11	METAL CHIP	1K 0.50% 1/10W				
R023	1-216-041-00	METAL GLAZE	470 5% 1/10W	R429	1-216-188-00	METAL GLAZE	390 5% 1/8W				
R027	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R430	1-216-001-00	METAL GLAZE	10 5% 1/10W				
R028	DELETED			R431	1-216-041-00	METAL GLAZE	470 5% 1/10W				
R031	1-216-025-00	METAL GLAZE	100 5% 1/10W	R432	1-216-041-00	METAL GLAZE	470 5% 1/10W				
R032	1-216-025-00	METAL GLAZE	100 5% 1/10W	R433	1-216-043-91	METAL GLAZE	560 5% 1/10W				
R033	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R434	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W				
R040	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R435	1-216-041-00	METAL GLAZE	470 5% 1/10W				
R041	1-216-206-00	METAL GLAZE	2.2K 5% 1/8W	R436	1-216-001-00	METAL GLAZE	10 5% 1/10W				
R043	1-216-022-00	METAL GLAZE	75 5% 1/10W	R437	1-216-022-00	METAL GLAZE	75 5% 1/10W				
R047	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R501	1-216-675-11	METAL CHIP	10K 0.50% 1/10W				
R053	1-216-063-91	METAL GLAZE	3.9K 5% 1/10W	R502	1-216-675-11	METAL CHIP	10K 0.50% 1/10W				
R054	1-216-129-00	METAL GLAZE	2.2M 5% 1/10W	R503	1-216-218-00	METAL GLAZE	6.8K 5% 1/8W				
R057	1-216-198-91	METAL GLAZE	1K 5% 1/8W	R504	1-216-077-00	METAL GLAZE	15K 5% 1/10W				
R060	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R505	1-216-079-00	METAL GLAZE	18K 5% 1/10W				
(KV-21X1D/21X1K/21X1L/21X1R/21X1U)											
R061	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R506	1-216-669-11	METAL CHIP	5.6K 0.50% 1/10W				
(KV-21X1D/21X1K/21X1L/21X1R/21X1U)											
R062	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R510	DELETED						
(KV-21X1D/21X1K/21X1L/21X1R/21X1U)											
R063	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R513	1-249-429-11	CARBON	10K 5% 1/4W				
(KV-21X1D/21X1K/21X1L/21X1R/21X1U)											
R071	1-216-174-00	METAL GLAZE	100 5% 1/8W	R514	1-216-081-00	METAL GLAZE	22K 5% 1/10W				
R072	1-216-174-00	METAL GLAZE	100 5% 1/8W	R516	1-216-049-00	METAL GLAZE	1K 5% 1/10W				
R075	DELETED			R605	1-216-365-00	METAL OXIDE	0.47 5% 2W F				
R076	DELETED			R625	1-249-426-11	CARBON	5.6K 5% 1/4W				
R088	1-216-043-91	METAL GLAZE	560 5% 1/10W	R628	1-216-049-00	METAL GLAZE	1K 5% 1/10W F				
R089	1-216-043-91	METAL GLAZE	560 5% 1/10W	R806	1-216-350-00	METAL OXIDE	1.2 5% 1W F				
R114	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R808	1-260-115-11	CARBON	22K 5% 1/2W				
R174	1-216-033-00	METAL GLAZE	220 5% 1/10W	(KV-21X1D/21X1K/21X1L/21X1R/21X1U)							
R201	DELETED			R809	1-215-911-11	METAL OXIDE	100 5% 3W F				
R203	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1001	DELETED						
R204	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1002	DELETED						
R206	1-249-399-11	CARBON	33 5% 1/4W	R1003	DELETED						
R207	DELETED			R1004	DELETED						
R318	1-216-021-00	METAL GLAZE	68 5% 1/10W	R1005	DELETED						
R326	1-216-041-00	METAL GLAZE	470 5% 1/10W	R1006	DELETED						
R328	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1009	DELETED						
R335	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1010	DELETED						
R336	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1011	DELETED						
R337	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1012	DELETED						
R338	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	R1013	DELETED						
R340	1-216-238-91	METAL GLAZE	47K 5% 1/8W	R1014	DELETED						
R342	1-216-186-00	METAL GLAZE	330 5% 1/8W	R1015	DELETED						
R349	1-216-101-00	METAL GLAZE	150K 5% 1/10W	R1016	DELETED						
(KV-21X1B)											

A C H1 H2 H3

The components identified by shading and marked  are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and marked Δ are critical for safety.
Replace only with the part number specified.

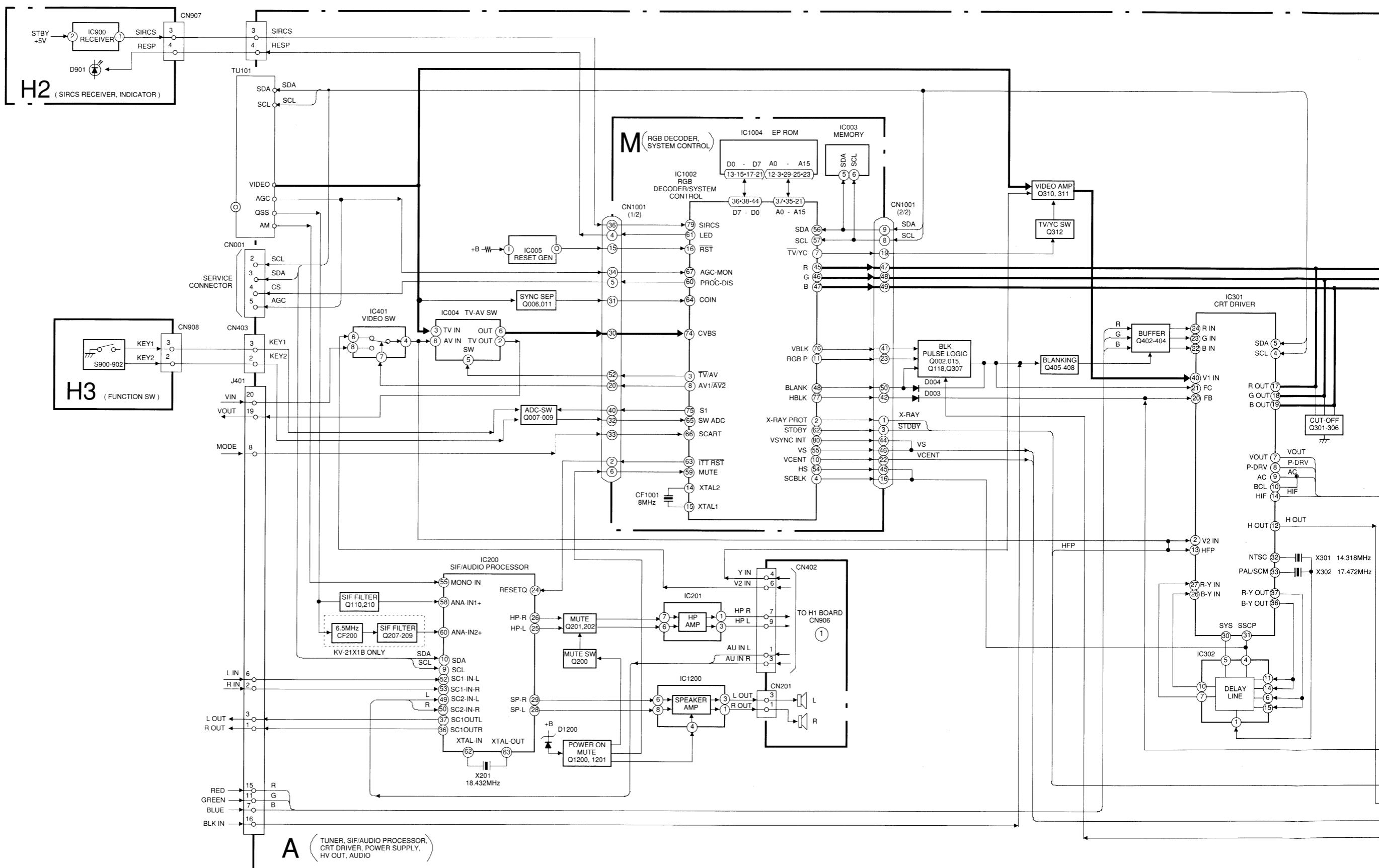
Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

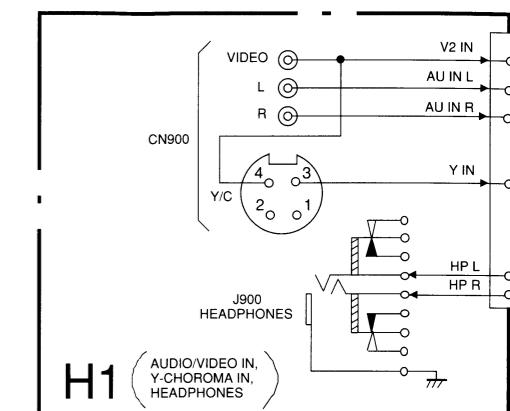
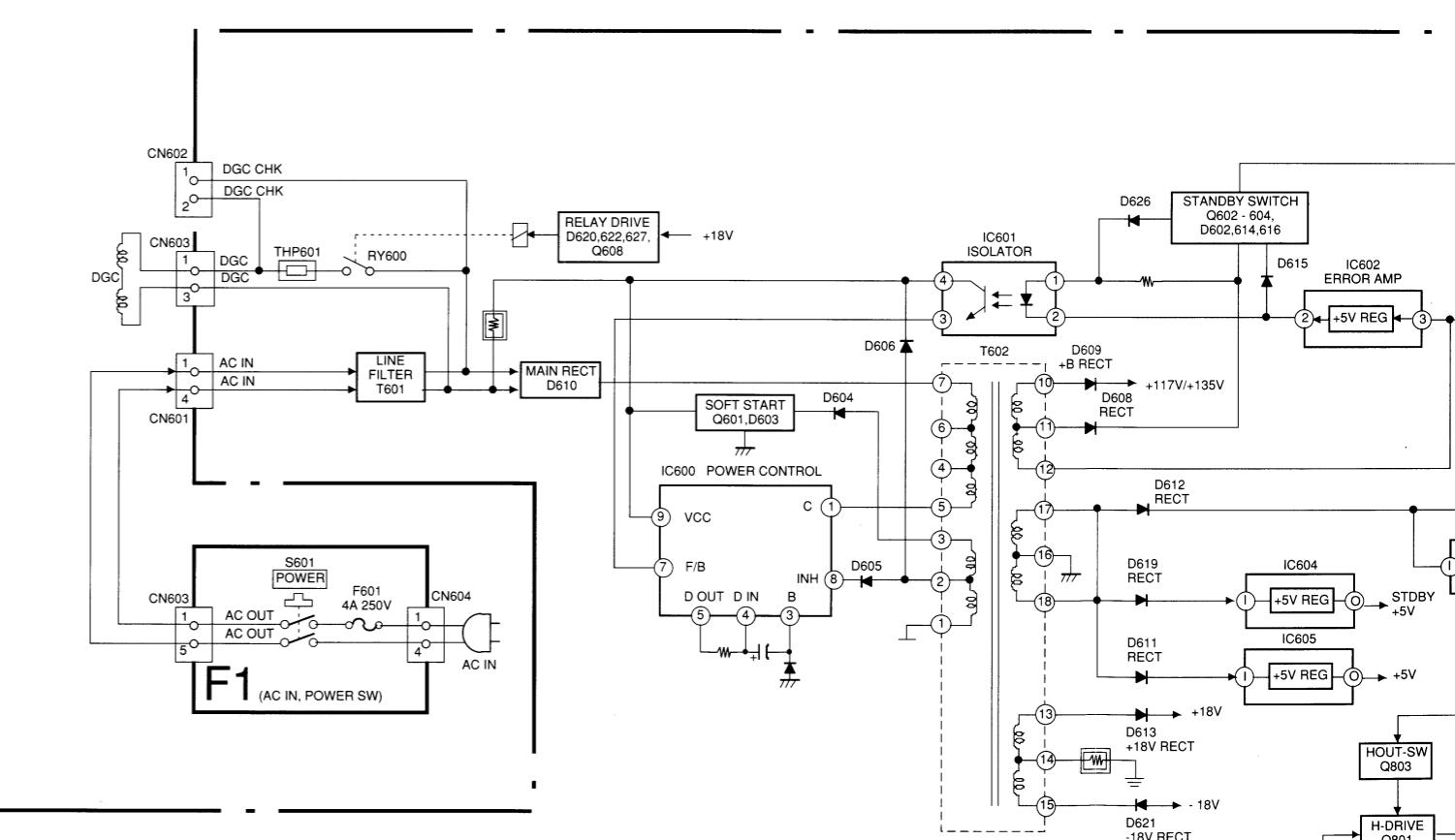
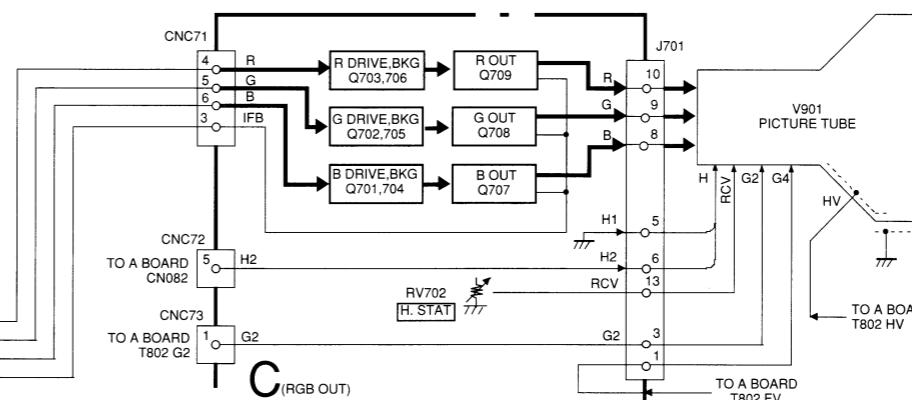
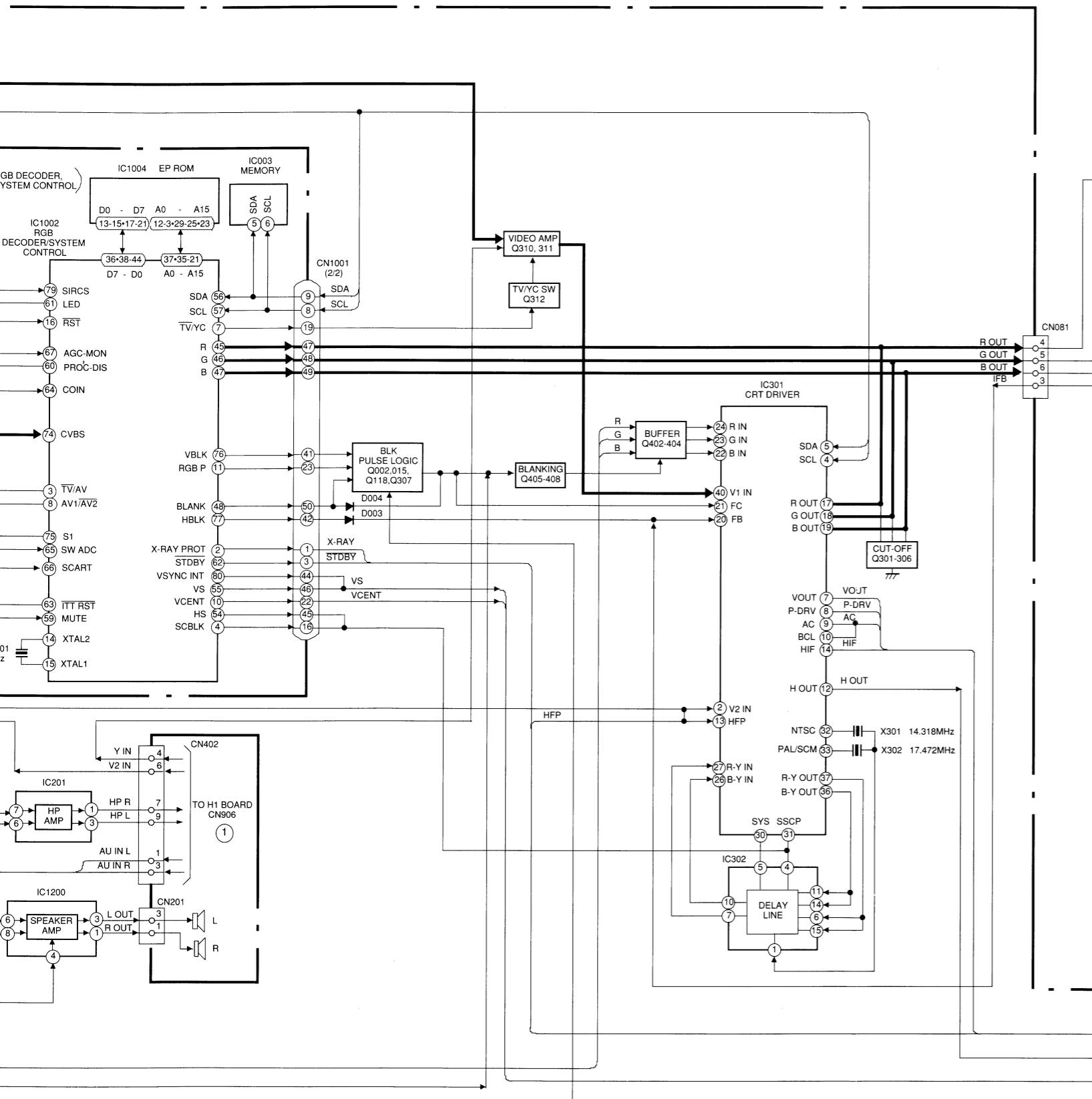
REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
MISCELLANEOUS *****							
Δ 1-411-922-11 COIL, DEGAUSSING (KV-21X1A/21X1B/21X1E) 1-544-727-21 SPEAKER (7.5X13C) Δ 1-765-286-11 CORD, POWER (KV-21X1B) 1-776-204-11 CORD, POWER (WITH PLUG) 2.5A/250V (KV-21X1L/21X1U)							
1-693-340-11 TUNER (TUVIF) (KV-21X1U)							

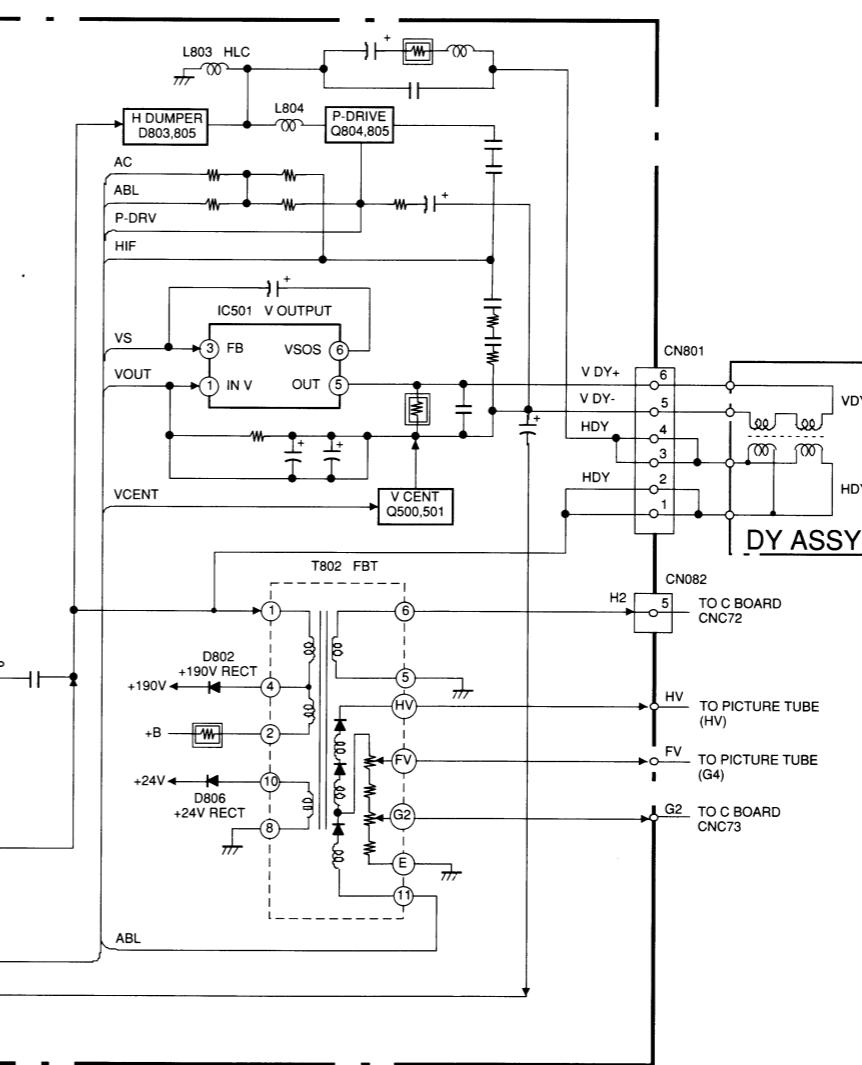
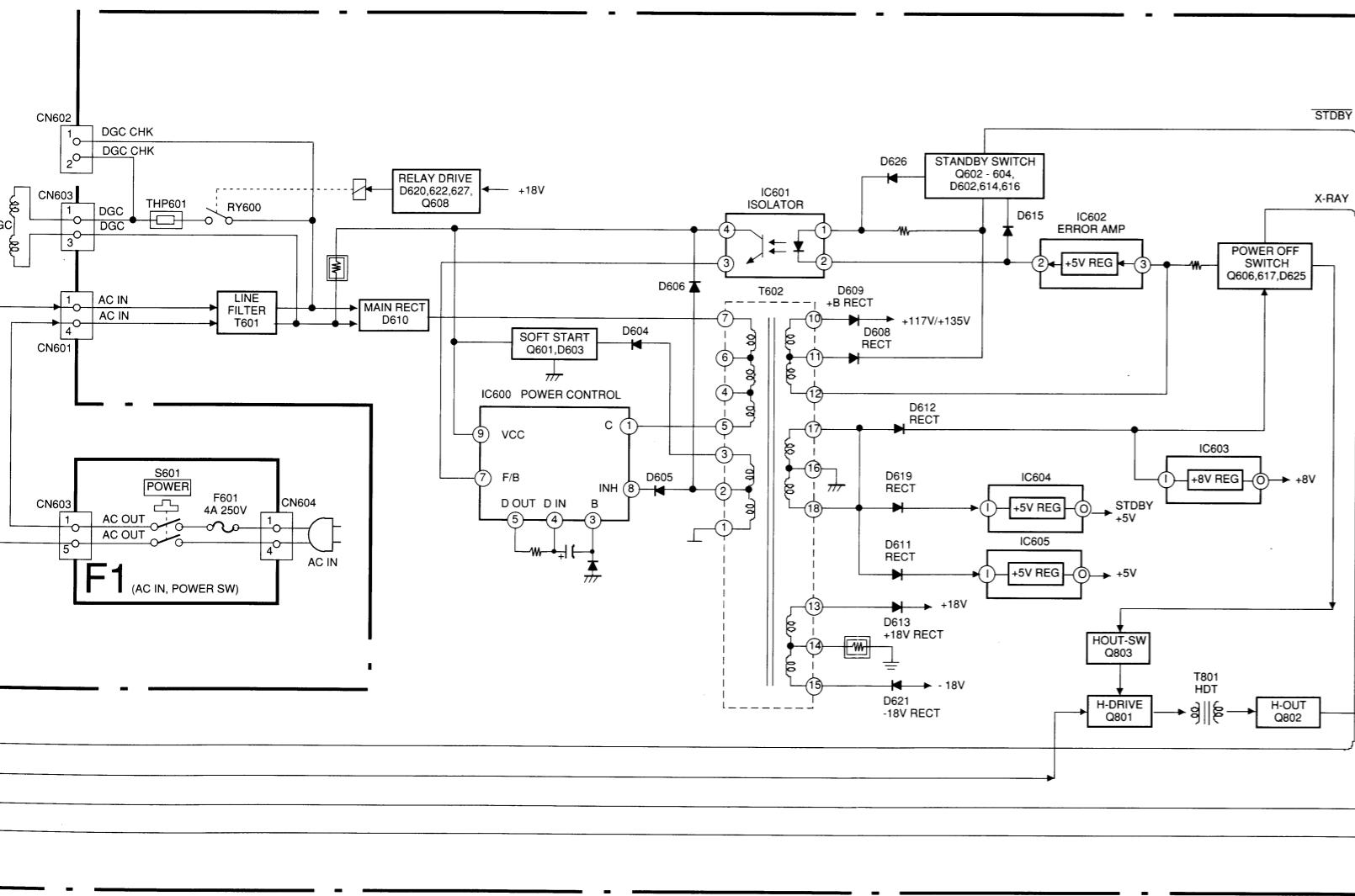
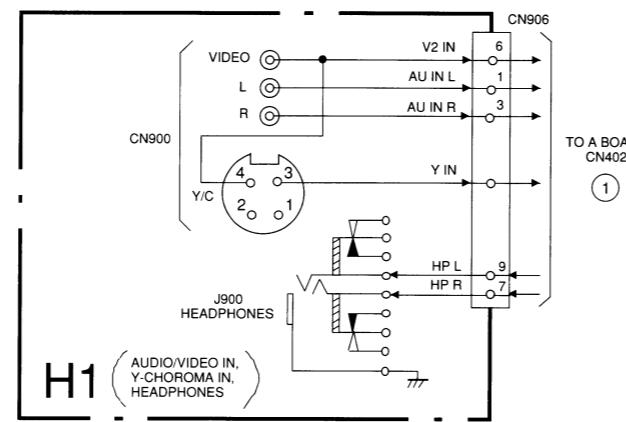
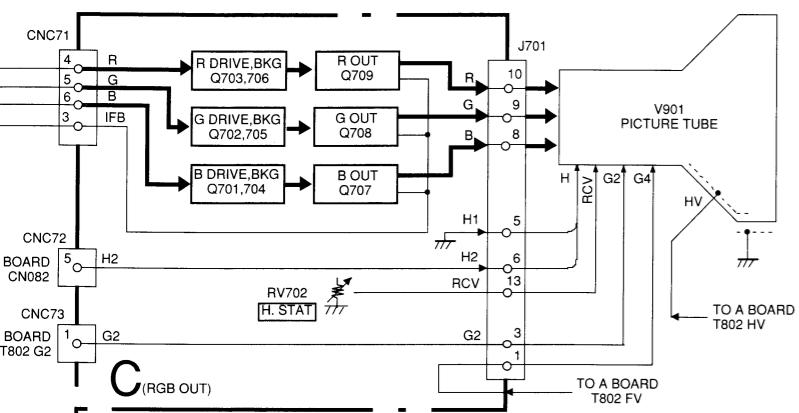
ACCESSORIES AND PACKING MATERIALS *****							
*4-044-002-11 CUSHION (UPPER) (ASSY) (KV-21X1A/21X1B/21X1E) *4-044-003-11 CUSHION (LOWER) (ASSY) (KV-21X1A/21X1B/21X1E) *4-044-004-11 INDIVIDUAL CARTON (KV-21X1A/21X1B/21X1E) 4-203-591-11 MANUAL, INSTRUCTION (KV-21X1D) (GERMAN/ENGLISH/DUTCH/ITALIAN/FRENCH/ GREEK/TURKISH) 4-203-592-81 MANUAL, INSTRUCTION (KV-21X1E) (PORTUGUESE) 4-203-656-92 MANUAL, INSTRUCTION (KV-21X1R) (ENGLISH/RUSSIAN/BULGARIAN)							

SECTION 5
DIAGRAMS

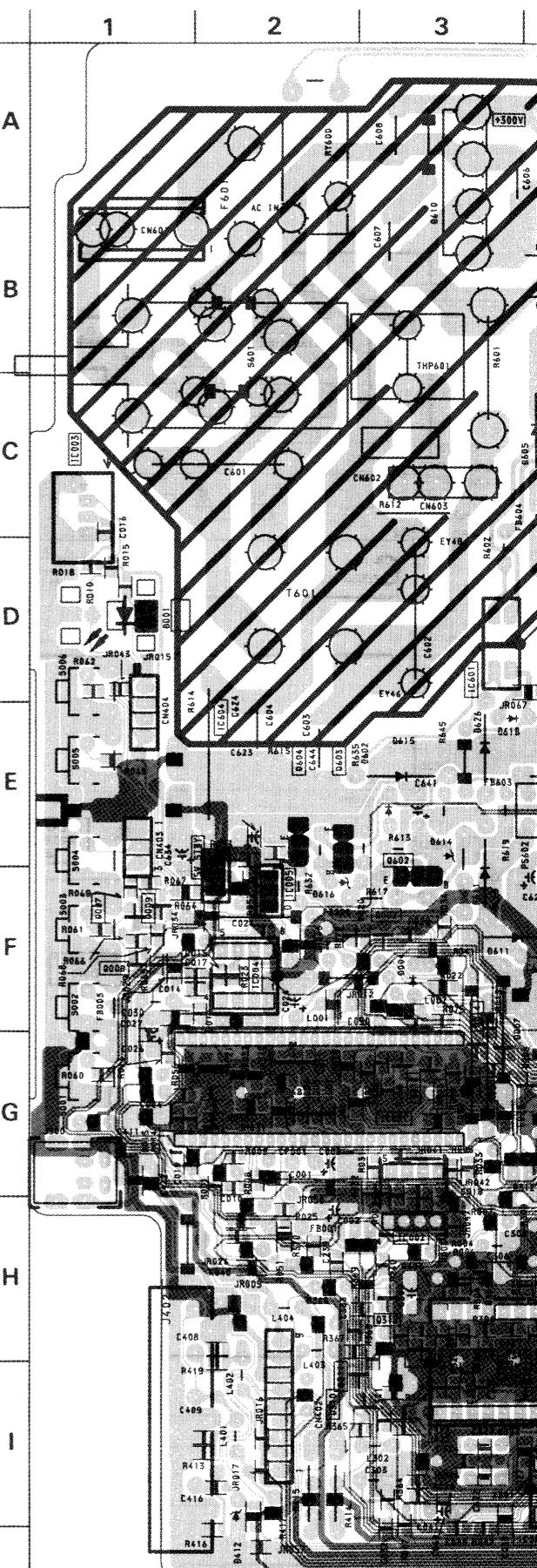
5-1. BLOCK DIAGRAM



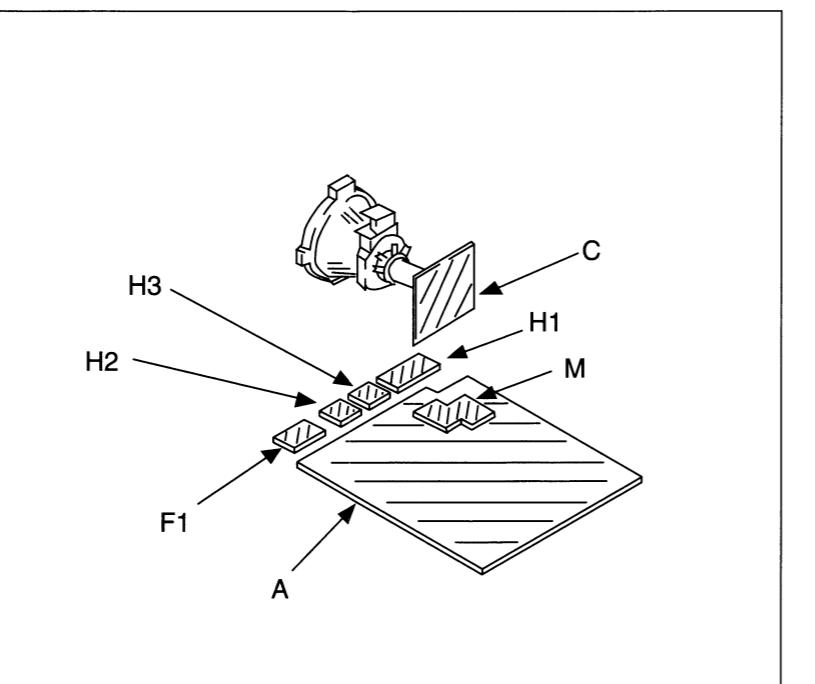




A Board



5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note :

- All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$ 50WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms. $\text{k} = 1000$, $\text{M} = 1000\text{K}$
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5 mm
Rating electrical power $\frac{1}{4} \text{ W}$

- : nonflammable resistor.
- : internal component.
- : panel designation, or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth - ground.
- : earth - chassis.
- : no mounted.

Note : The components identified by shading and marked are critical for safety. Replace only with the part number specified.

Note : Les composants identifiés par une trame et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: \times	ADJUSTABLE RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

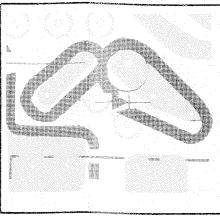
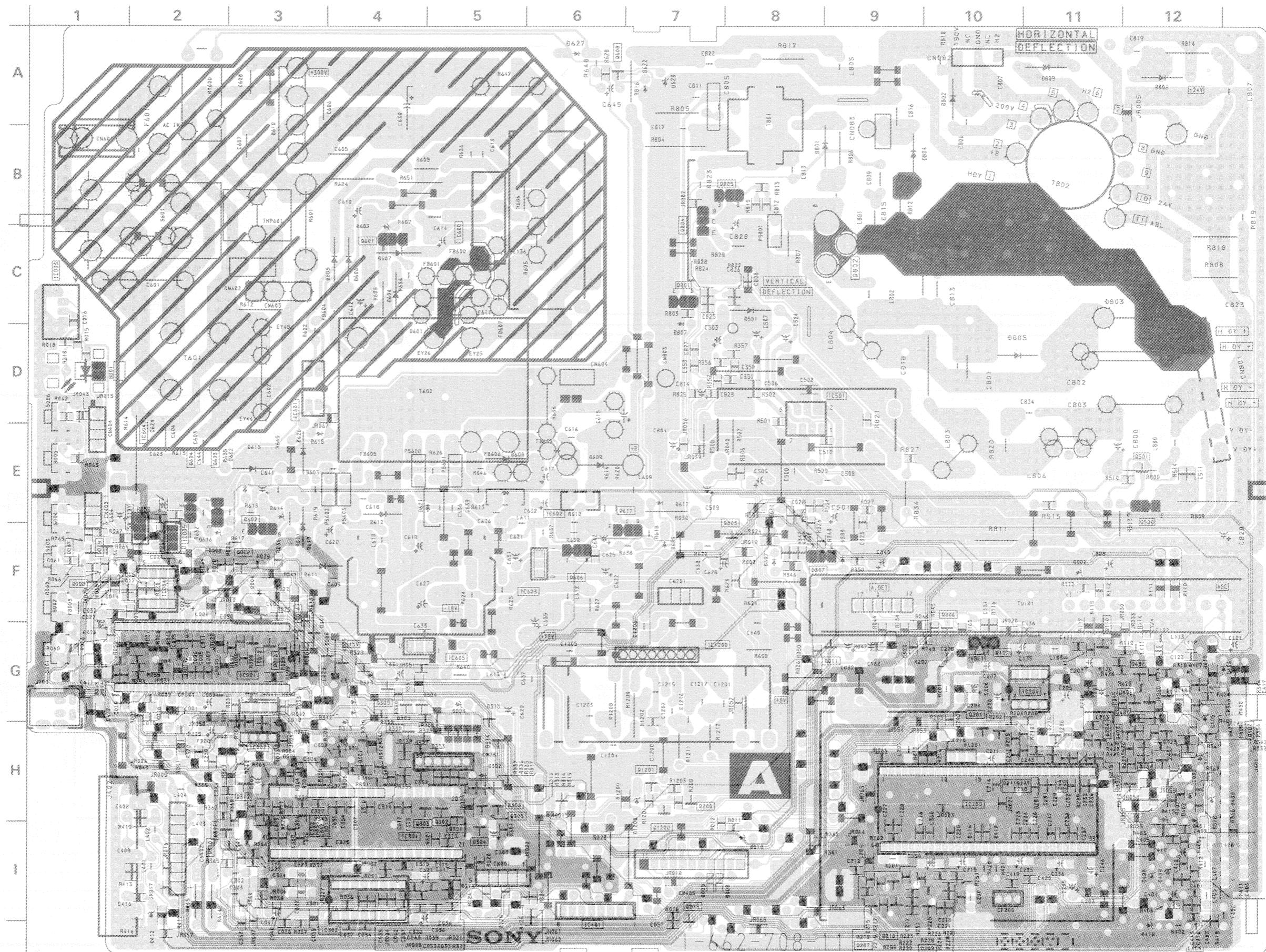
- Readings are taken with a colour-bar signal input.
- Readings are taken with 10M digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- Circled numbers are waveform references.
- : B+ bus.
- : signal path. (RF)

A BOARD

IC	DIODE
IC003	C-1
IC004	F-2
IC005	F-2
IC200	H-10
IC201	G-11
IC301	I-4
IC302	J-4
IC401	J-6
IC501	D-9
IC600	C-5
IC601	D-3
IC602	E-6
IC603	F-6
IC604	E-2
IC605	G-5
IC1200	G-7
TRANSISTOR	
Q002	F-3
Q006	F-10
Q007	F-1
Q008	F-1
Q009	F-1
Q011	G-9
Q012	G-3
Q013	G-3
Q014	G-3
Q015	I-7
Q107	G-10
Q110	F-11
Q118	G-12
Q200	H-7
Q201	G-10
Q202	G-10
Q204	H-11
Q205	G-11
Q207	J-9
Q208	J-9
Q209	J-10
Q210	J-9
Q300	H-4
Q301	I-5
Q302	I-5
Q303	I-5
Q304	I-5
Q305	H-5
Q306	H-5
Q307	F-8
Q310	I-2
Q311	I-2
Q312	H-3
Q402	G-13
Q403	H-12
Q404	H-12
Q405	G-12
Q406	G-12
Q407	H-12
Q408	G-12
Q500	E-12
Q501	E-12
Q601	C-4
Q602	F-3
Q603	E-2
Q604	E-2
Q606	F-6
Q608	A-6
Q617	E-7
Q801	C-7
Q802	C-9
Q803	F-8
Q804	B-7
Q805	B-8
Q1200	I-7
Q1201	H-7

A Board

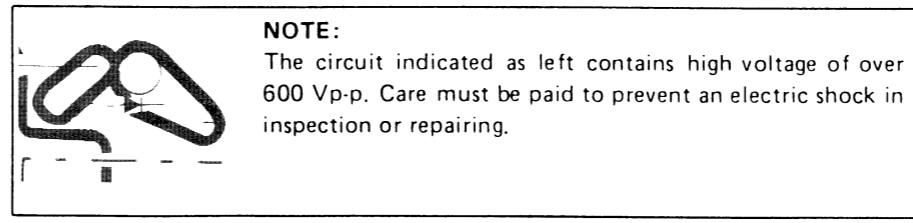
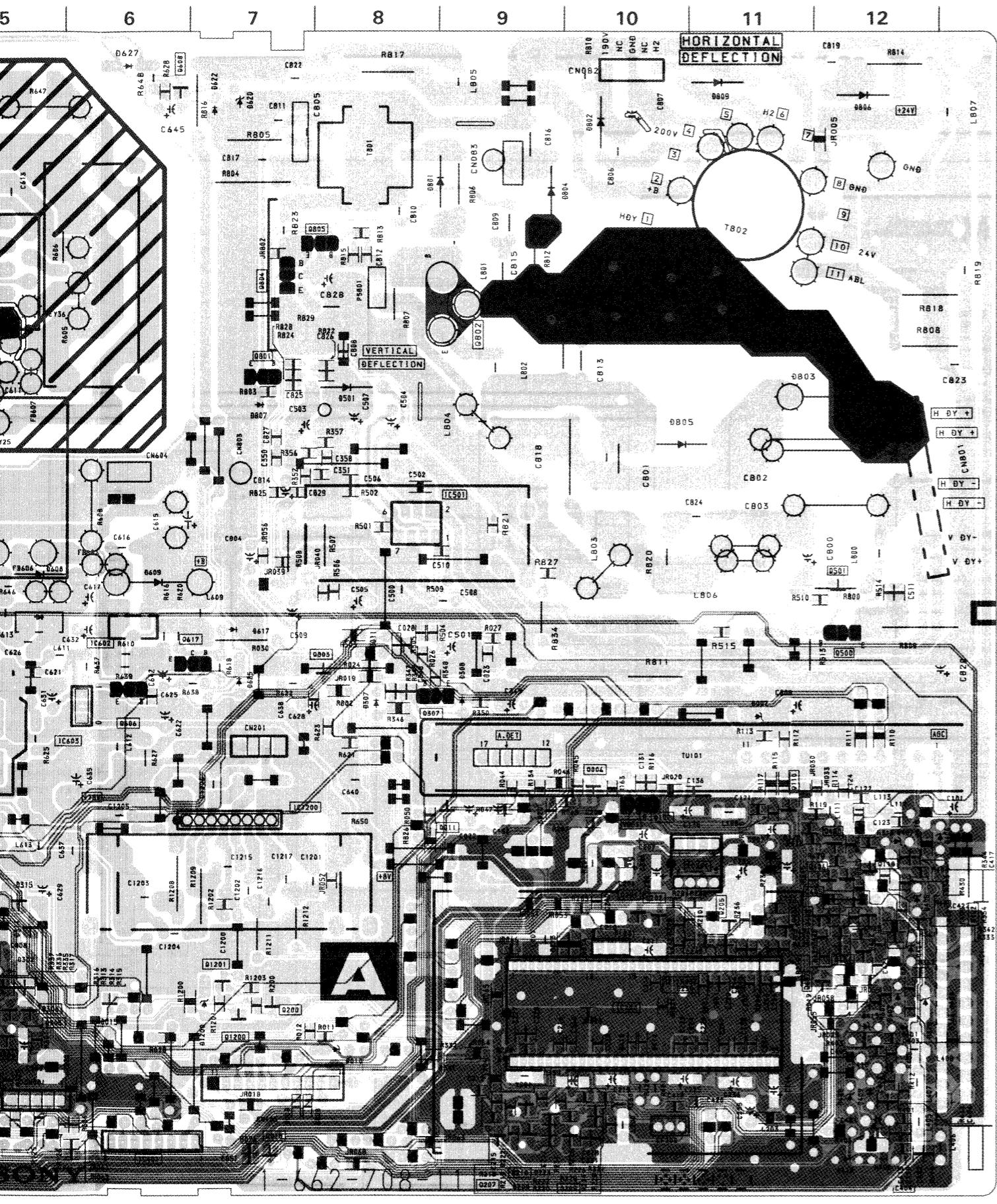
IC	DIODE
IC003	C-1
IC004	F-2
IC005	F-2
IC200	H-10
IC201	G-11
IC301	I-4
IC302	J-4
IC401	J-6
IC501	D-9
IC600	C-5
IC601	D-3
IC602	E-6
IC603	F-6
IC604	E-2
IC605	G-5
IC1200	G-7
D002	F-11
D003	G-5
D004	F-3
D005	G-4
D006	G-4
D007	G-3
D009	I-7
D011	E-8
D015	H-6
D201	H-11
D301	H-4
D302	H-5
D307	F-8
D308	F-9
D401	H-12
D402	H-12
D403	H-13
D404	H-12
D405	G-12
D406	G-3
D407	G-12
D408	I-12
D409	I-12
D410	I-12
D412	J-2
D415	H-12
D416	I-10
D417	I-10
D501	C-8
D602	E-3
D603	B-4
D604	C-4
D605	C-5
D606	C-4
D607	C-4
D608	E-5
D609	E-6
D610	A-3
D611	F-3
D612	F-4
D613	E-5
D614	F-3
D615	E-3
D616	F-2
D617	E-7
D619	F-3
D620	A-7
D621	E-4
D622	A-7
D625	F-7
D626	E-3
D627	A-6
D801	B-9
D802	A-10
D803	F-8
D805	D-10
D806	A-12
D807	C-7
D809	A-11
D1200	I-7



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A BOARD * MARK

Model Ref. No	21X1A
C215	—
C349	—
IC200	MSP3400C-PP-C6
R332	68K
R357	68K
TU101	TUVIF (AEP)



A BOARD TRANSISTOR TABLE

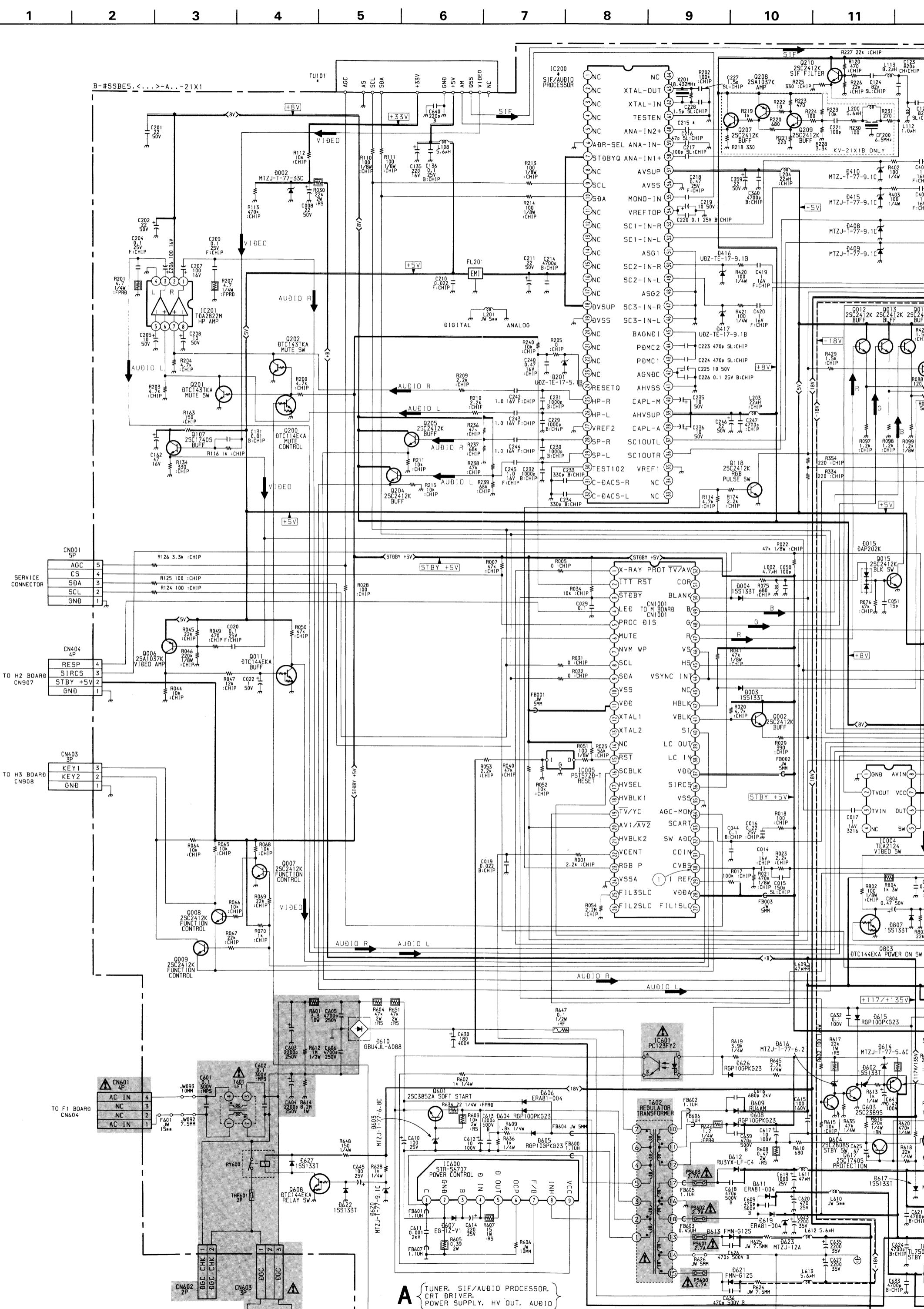
Transistor Voltage Table			
Ref No	B Base	C Collector	E Emitter
Q002	-	5.0	-
Q006	4.6	0.7	4.8
Q007	-	5.0	0
Q008	5.0	5.0	4.5
Q009	0.1	5.0	4.5
Q011	0.6	5.0	0
Q012	-	5.0	-
Q013	-	5.0	-
Q014	-	5.0	-
Q110	4.6	8.0	4.0
Q118	-	-	0
Q201	-	-	0
Q202	-	-	0
Q204	4.7	8.0	4.0
Q205	4.6	8.0	4.0
Q210	3.5	8.0	2.9
Q300	0.3	0.6	0
Q301	0	2.0	0
Q302	0	2.1	0
Q303	0	2.2	0
Q304	0	2.0	0
Q305	0	2.1	0
Q306	0	2.2	0
Q310	1.7	5.0	3.0
Q311	3.6	5.0	3.0
Q312	-0.2	-	0
Q403	-	-	-
Q404	-	-	-
Q500	5.4	19.7	4.8
Q501	0.6	5.4	0
Q601	-0.3	-2.2	-2.6
Q602	68.0	8.0	68.4
Q603	0	67.7	0
Q604	0.6	0	0
Q608	-	15.8	0
Q801	0	120	0
Q802	-0.2	120	0
Q803	0.1	0.6	0
Q804	0.5	16.0	-
Q805	1.0	16.0	0.5
Q1201	3.5	7.0	2.8

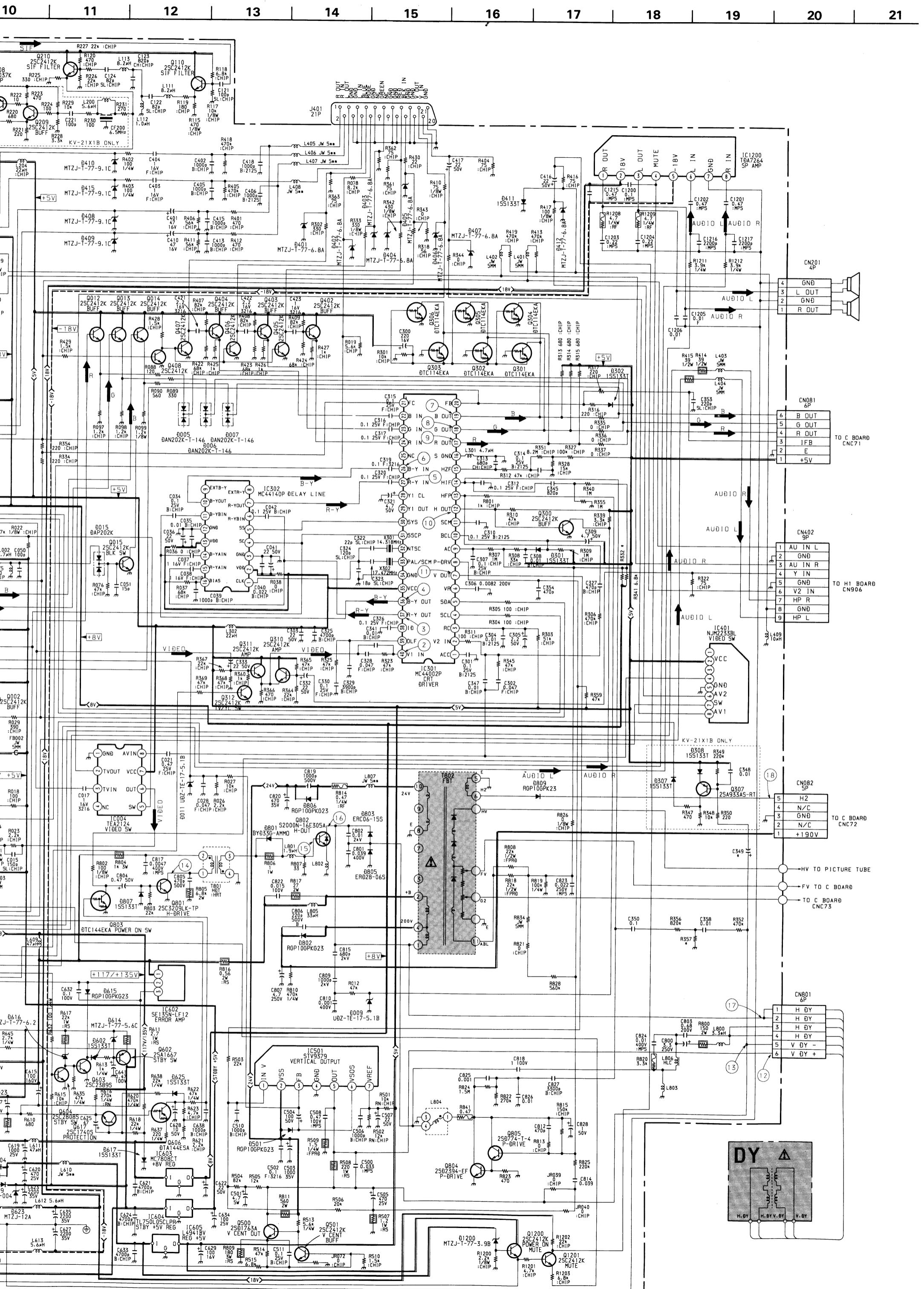
A BOARD IC VOLTAGE TABLE

IC Voltage Table					
Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)
IC004	2	2.0	1	1.6	
	3	2.2	2	4.7	
	6	1.9	4	1.3	
	7	5.0	6-7	1.4	
	8	1.8	8	0.2	
	7	4.8	10-11	1.4	
	9	3.1	13	4.7	
	10	3.1	14-15	1.1	
IC401	18	4.8	16	1.6	
	24	4.5	4	2.1	
	31-32	3.8	6	3.0	
	36-37	3.8	7	2.7	
	38	7.0	8	3.0	
	39	8.0	2	28.3	
	40	7.0	3	1.4	
	42-45	3.8	42-45	20.0	
IC501	49-50	3.8	6	28.6	
	52-53	3.8	7	2.6	
	54	2.6	2	15.8	
	55	3.8	4	7.0	
	57	4.8	5	-16.0	
	58-59	1.5			
	62-63	2.4			
	1	3.5			
IC200	2	8.0			
	3	3.5			
	5	0.5			
	8	0.5			
	1	1.6			
	2	0.8			
	3	1.3			
	4-5	3.3			
IC201	6	0.9			
	7	1.5			
	8	1.0			
	9	1.3			
	10	2.3			
	11	1.6			
	12	0.3			
	13	0.4			
IC301	14	1.0			
	15	2.1			
	17-19	2.4			
	20	3.1			
	22-23	3.0			
	24	2.9			
	26-27	3.1			
	28	1.0			
IC301	31	1.3			
	32-33	1.8			
	35	4.7			
	36	2.5			
	37	2.4			
	38	0.8			
	39	3.0			
	40	2.8			

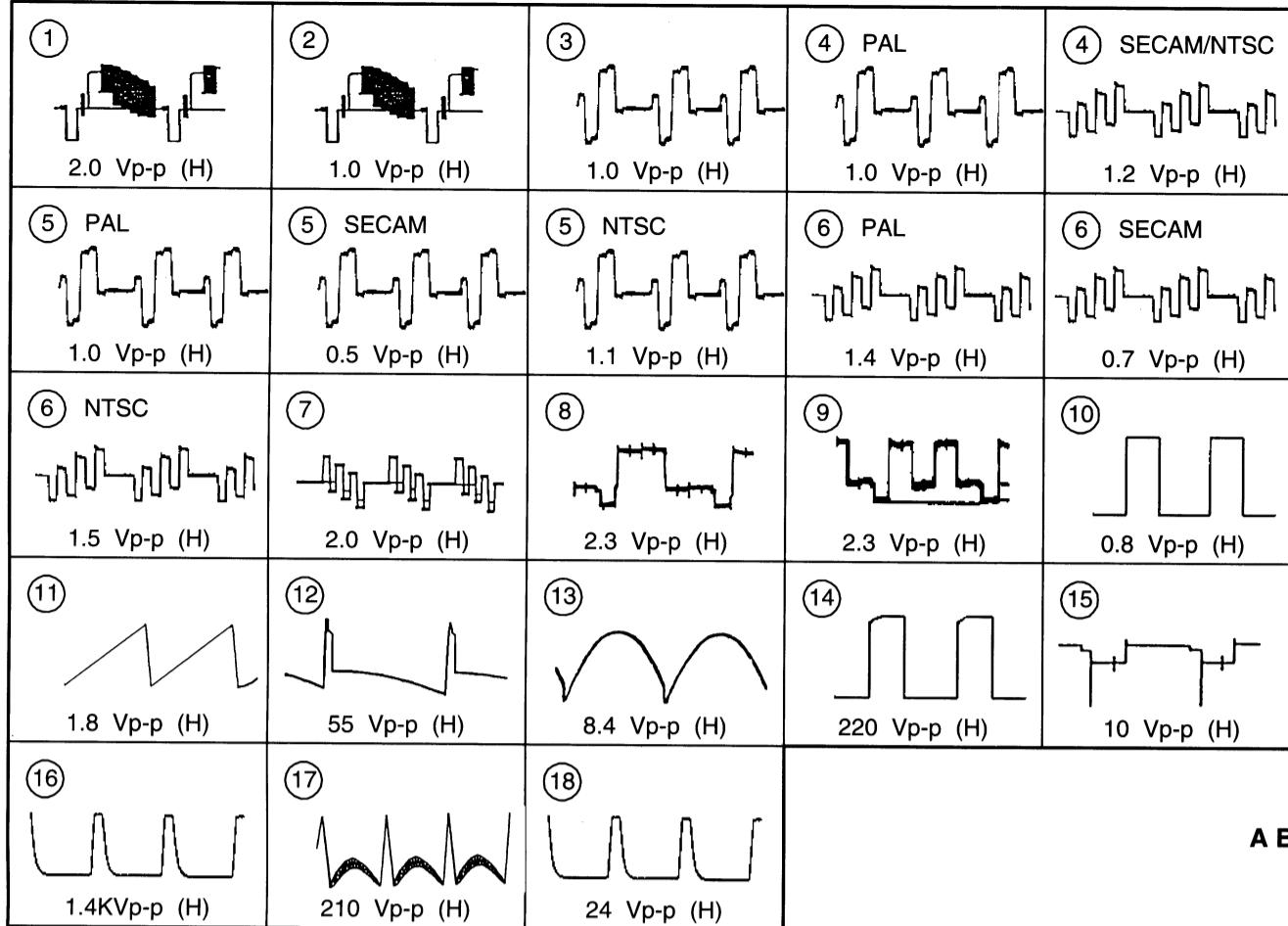
A BOARD * MARK

Model Ref. No	21X1A	21X1B	21X1D	21X1E	21X1K	21X1L	21X1R	21X1U
C215	—	100PF	—	—	—	—	—	—
C349	—	22UF/50V	—	—	—	—	—	—
IC200	MSP3400C-PP-C6	MSP3410B-PP-F7	MSP3400C-PP-C6	MSP3410B-PP-F7	MSP3400C-PP-C6	MSP3410B-PP-F7	MSP3400C-PP-C6	MSP3410B-PP-F7
R332	68K	68K	47K	68K	47K	47K	47K	47K
R357	68K	68K	47K	68K	47K	47K	47K	47K
TU101	TUVIF (AEP)	TUVIF (FR)	TUVIF (AEP)	TUVIF (UK)				

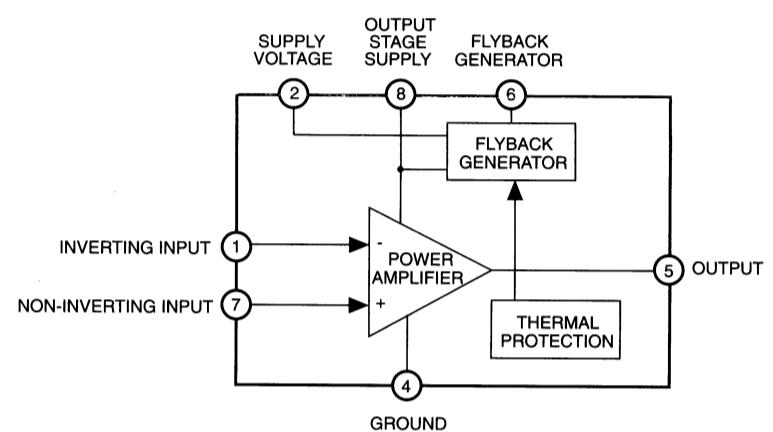




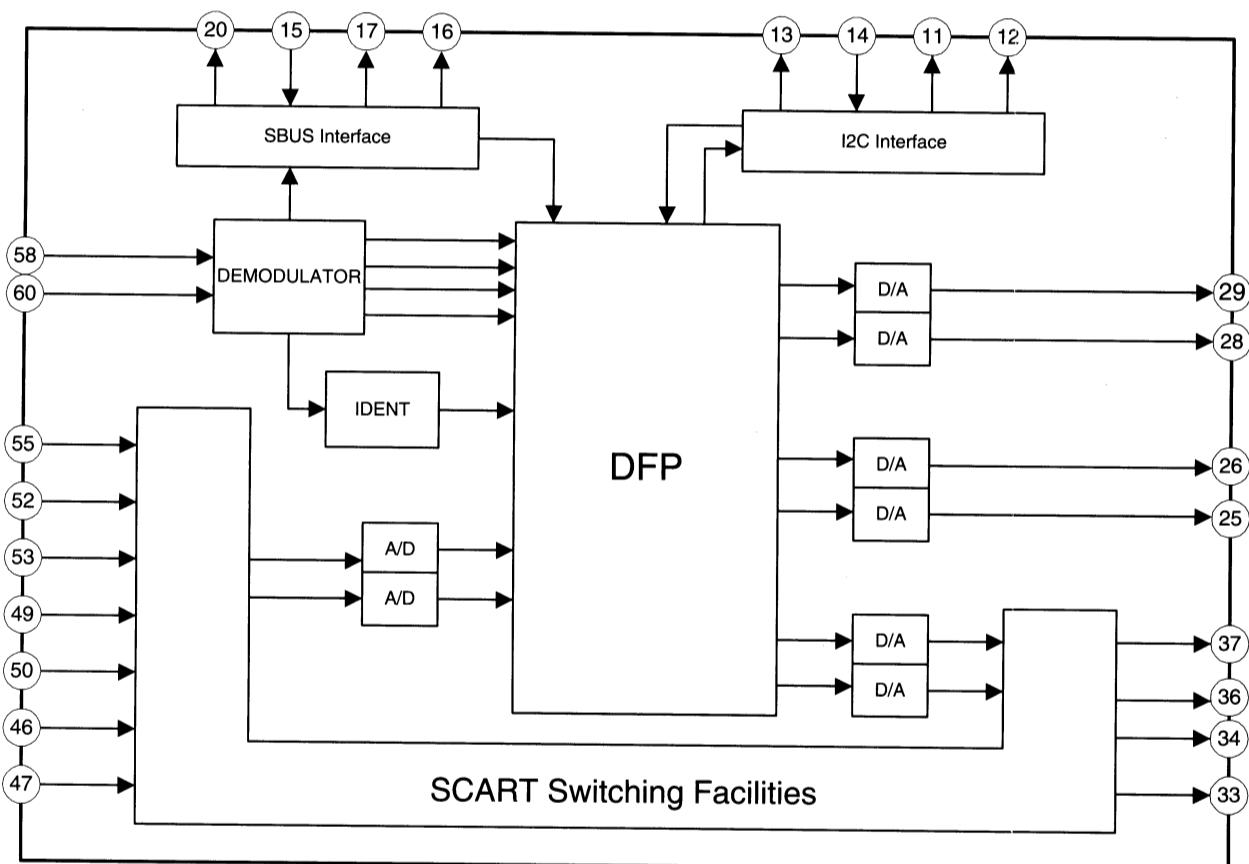
WAVEFORMS A BOARD



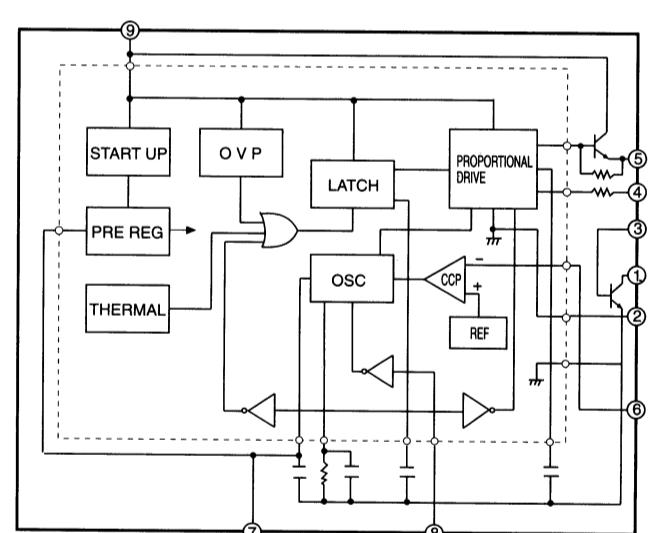
A BOARD IC501 STV9379



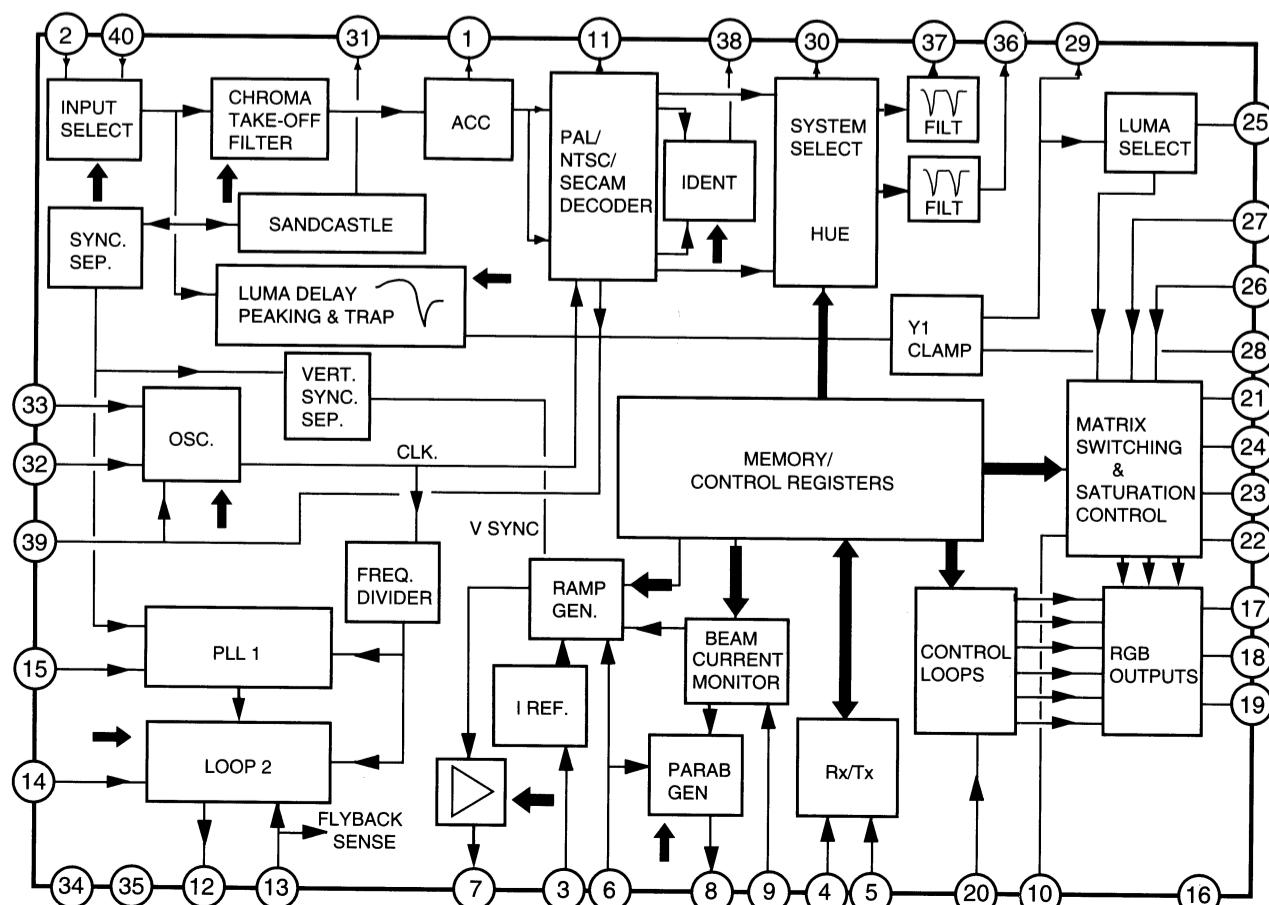
A BOARD IC200 MSP3400C-PP-C6/MSP3410B-PP-F7



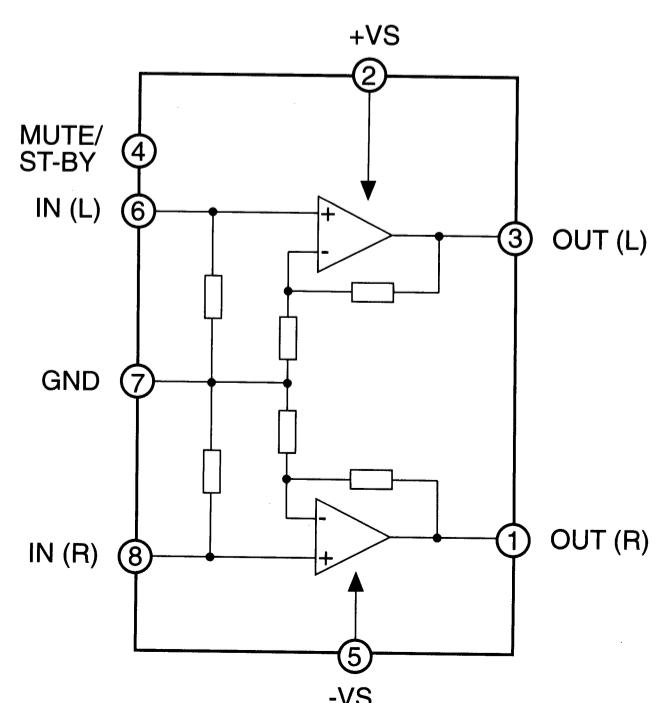
A BOARD IC600 STR-S6707

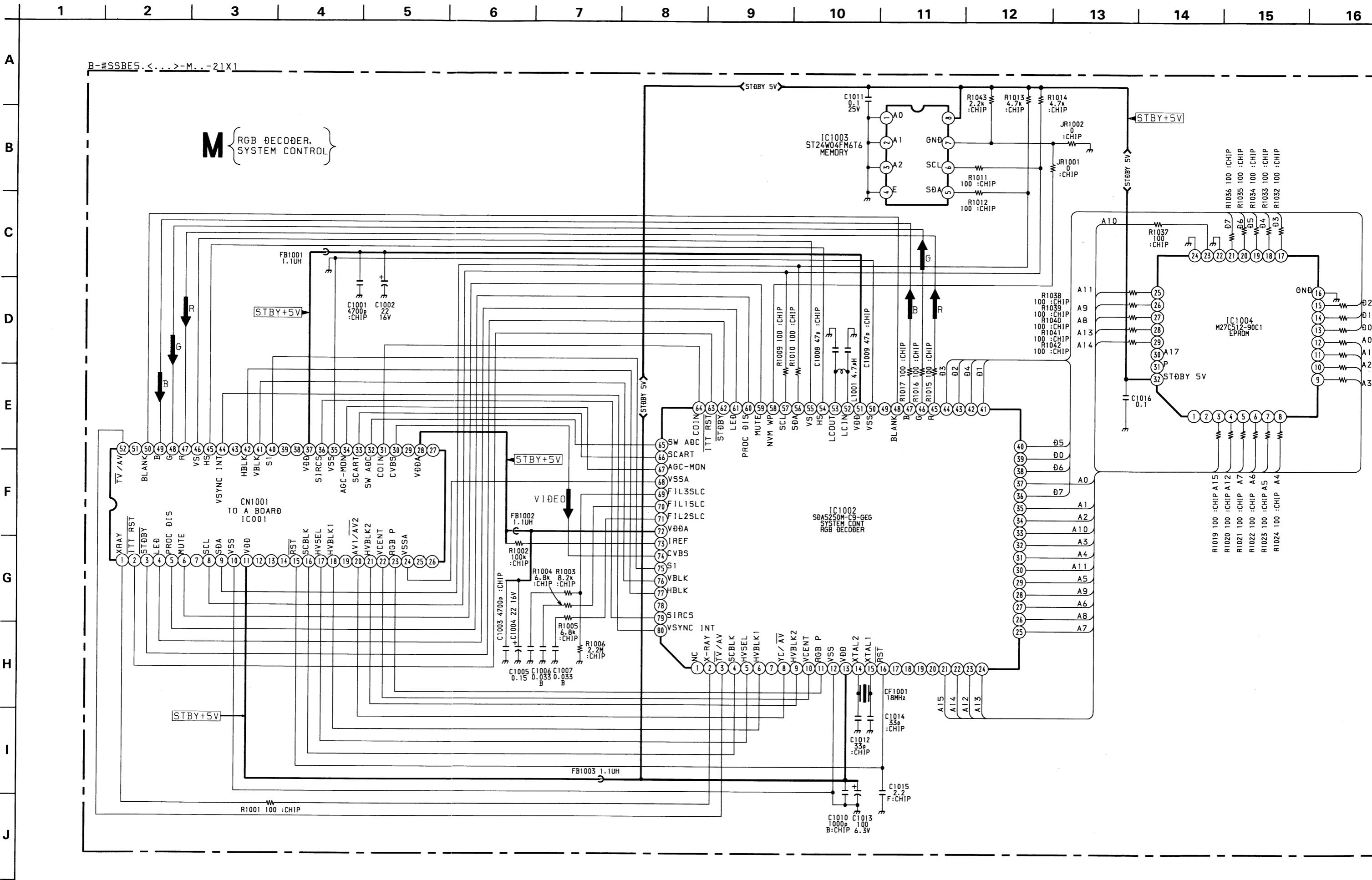


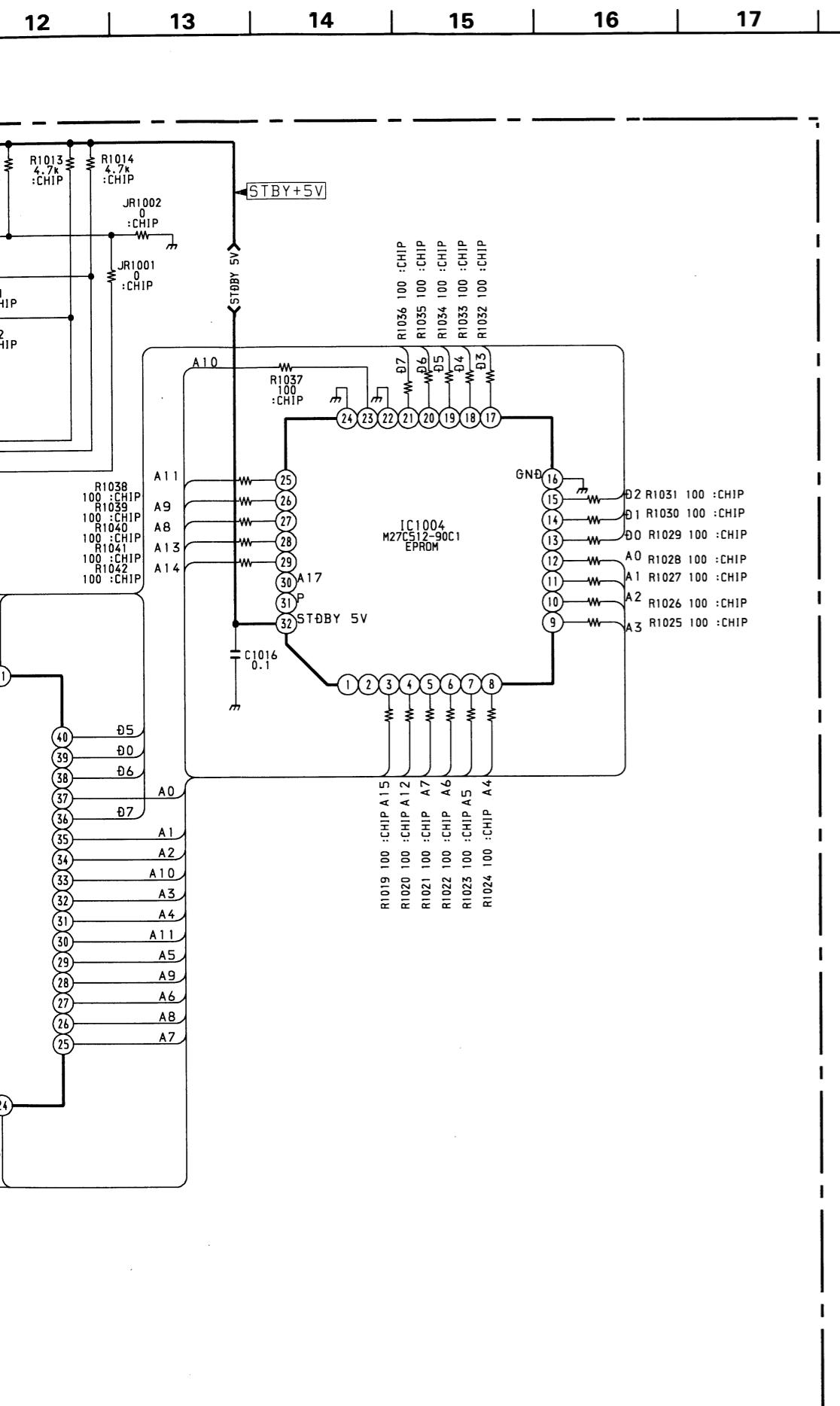
A BOARD IC301 MC44002P



A BOARD IC1200 TDA7264

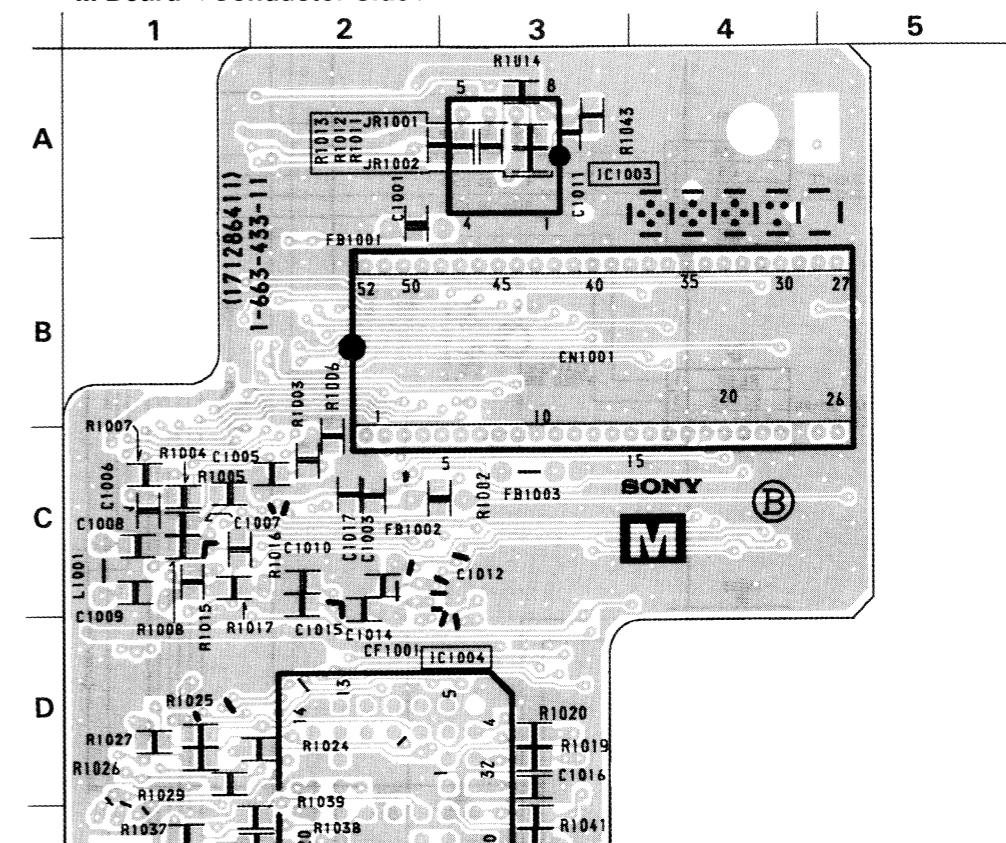




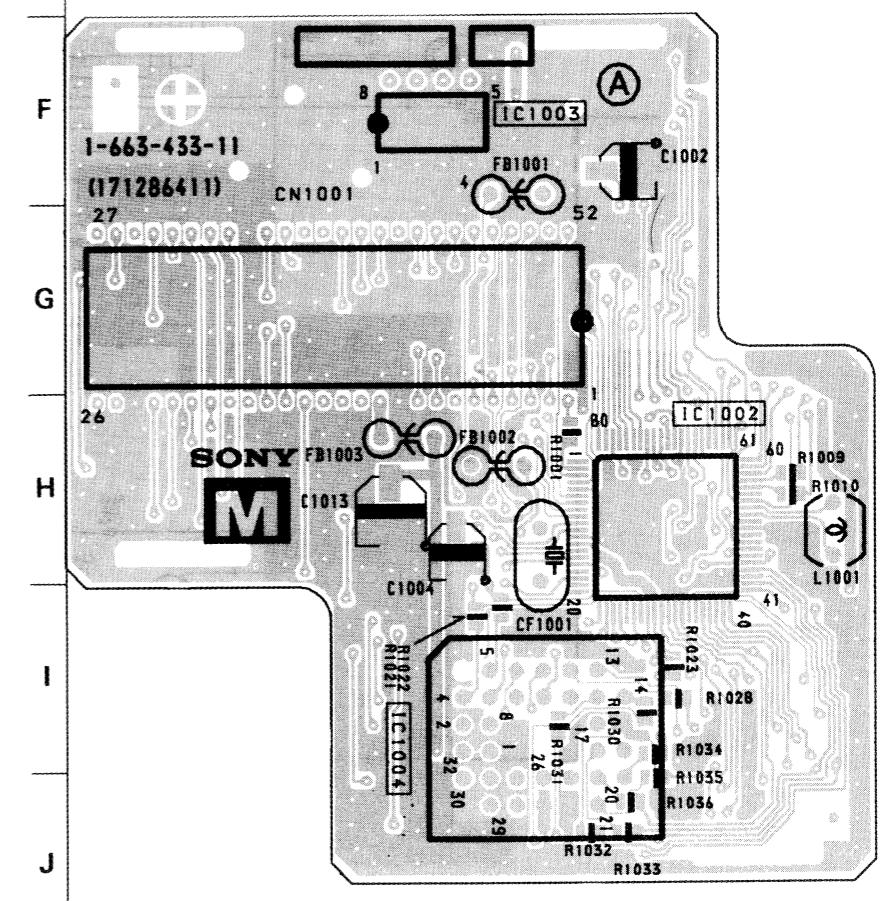


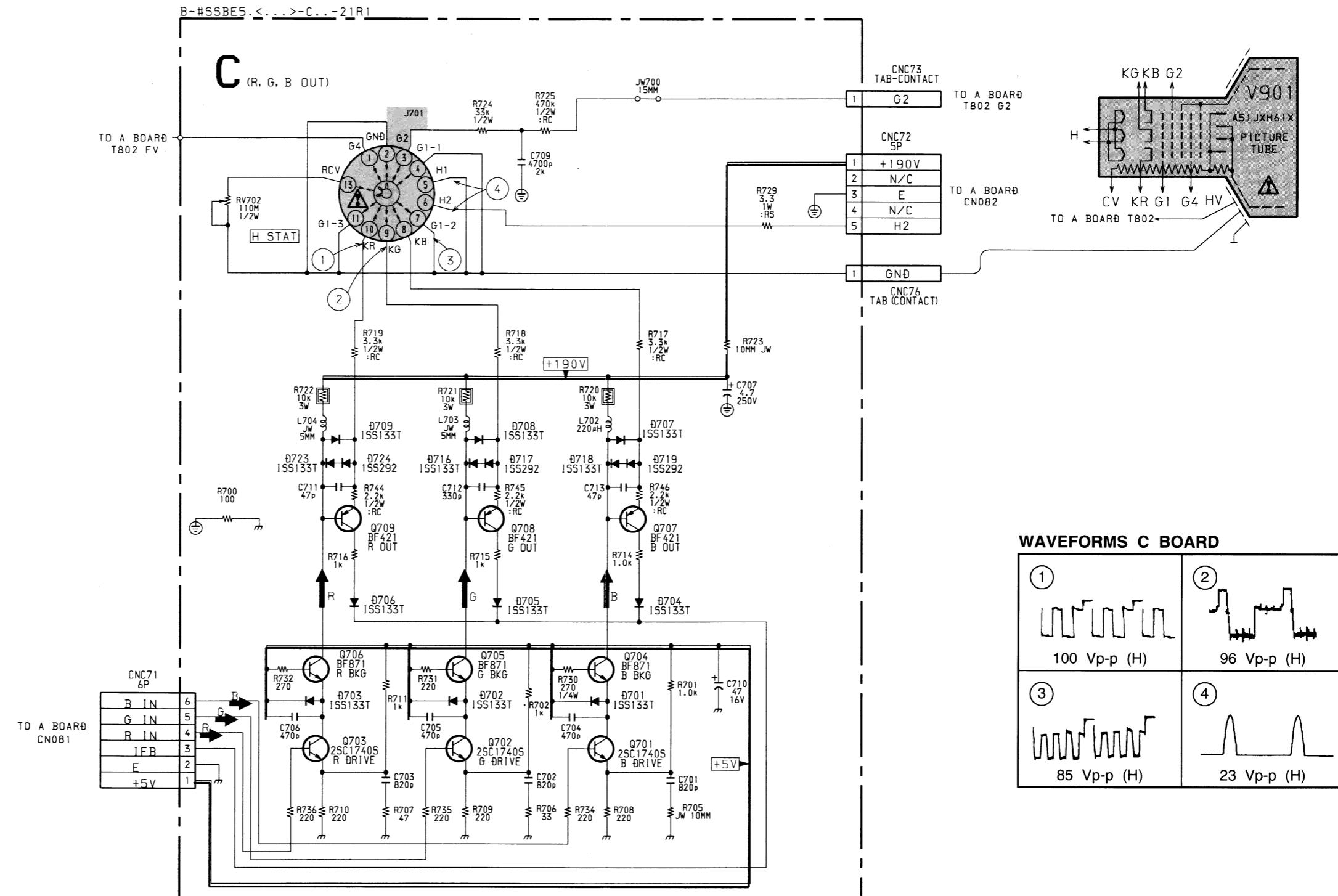
M RGB DECODER, SYSTEM CONTROL

M Board < Conductor Side >

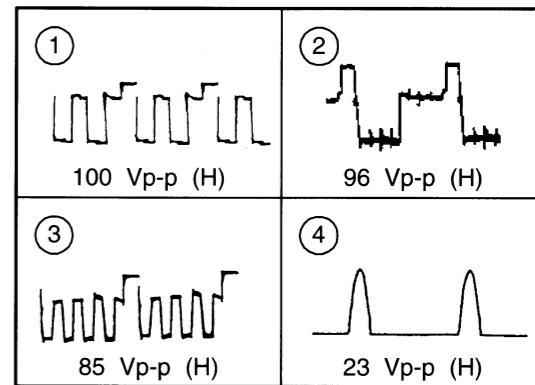


M Board < Component Side >



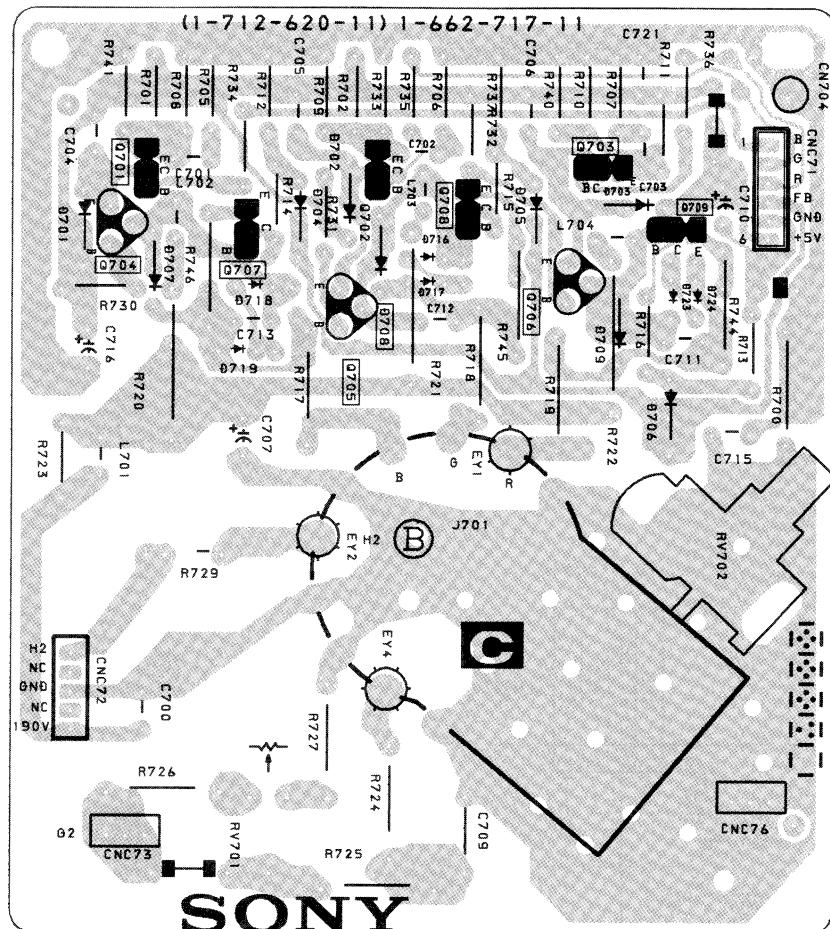


WAVEFORMS C BOARD



C

[R,G,B OUT]

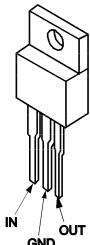
C Board

C BOARD
TRANSISTOR VOLTAGE TABLE

Transistor Voltage Table			
Ref No	B Base	C Collector	E Emitter
Q701	2.5	4.3	1.8
Q702	2.5	4.3	1.8
Q703	2.3	4.3	1.7
Q704	5.0	144.8	4.3
Q705	5.0	149.2	4.3
Q706	5.0	152.3	4.3
Q707	144.8	3.5	152.3
Q708	149.2	3.5	149.2
Q709	151.7	3.5	172.1

5-4. SEMICONDUCTORS

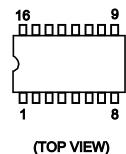
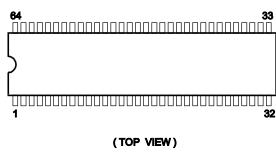
L4941BV
LM7808CT
MC7808CT
TEA7605
TL750L05CLPR



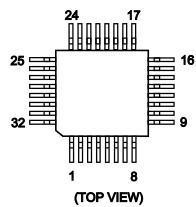
MC44002P



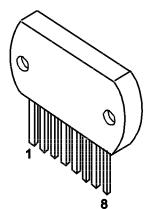
MC44140P

MSP3400C-PP-C6
MSP3410B-PP-F7

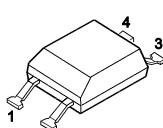
M27C512-90C1-BE5-1



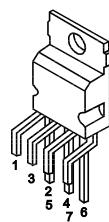
NJM2233BL



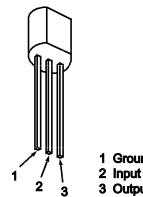
PC123F2
PC123FY2



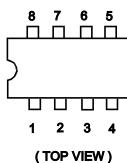
STV9379



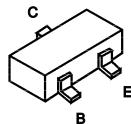
PST572D
PST572D-T



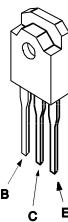
TDA2822M
TEA2124



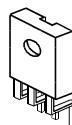
DTA144ESA
DTA144ESA-TP
DTC114EK
DTC114EKA-T146
DTC143TKA-T146
DTC144EKA-T146
2SA1037K-T-146-R
2SA1162-G
2SC2412K-QR
2SC2412K-T-146-R



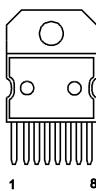
S2000N-16E305A



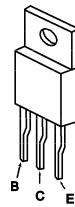
SBX1981-51



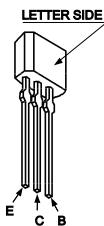
TDA7264



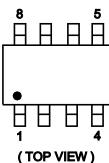
2SA1667
2SC3852A
2SD2394-EF



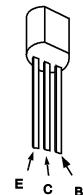
2SA933AS-QRT
2SA933AS-RT
2SC1740S-RT



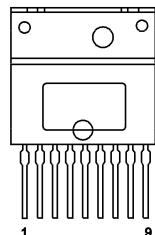
ST24W04FB6



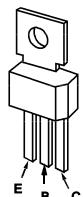
BF421-AMMO
2SA1091-O



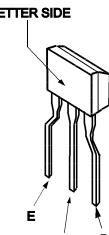
STR-S6707



BF871-127



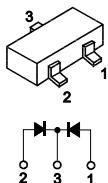
2SC2389STP-R



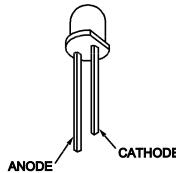
2SC2785-HFE



DAN202K
DAN202K-T-146

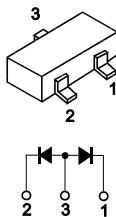
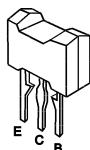


SEL1210S-CD
SEL1210S-D



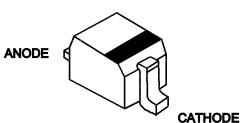
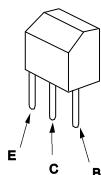
DAP202K
DAP202K-T-146

2SC2808STP-R

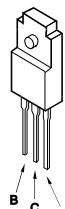


2SC3209LK
2SC3209LK-TP
2SD774-T-4
2SD774-34

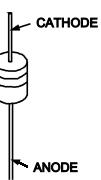
DTZ5.1B
DTZ9.1
RD5.6S-B
UDZ-TE-17-5.1B
UDZ-TE-17-5.6B
UDZ-TE-17-9.1B



2SC4793
2SD1763A



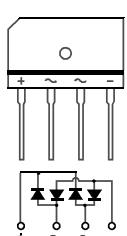
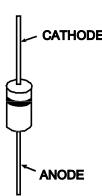
ERA81-004TP1 MTZJ-T-77-9.1C
ERA83-006 MTZJ-12A
MTZJ-T-77-12A MTZJ-33C
MTZJ-T-77-33C RD3.9ES-B2
MTZJ-T-77-3.9B MTZJ-6.2B
MTZJ-T-77-5.1 RD5.1ES-B1
MTZJ-T-77-5.6C RD5.6ESB2
MTZJ-T-77-6.2 RD6.8ES-B2
MTZJ-T-77-6.8A RD9.1ES-B3
MTZJ-T-77-6.8C 1SS133T-77



BYD33G
BYD33G-AMMO
EG-1Z-V1
EL1Z
ERC06-15S
ERD28-06S
ERD28-08S

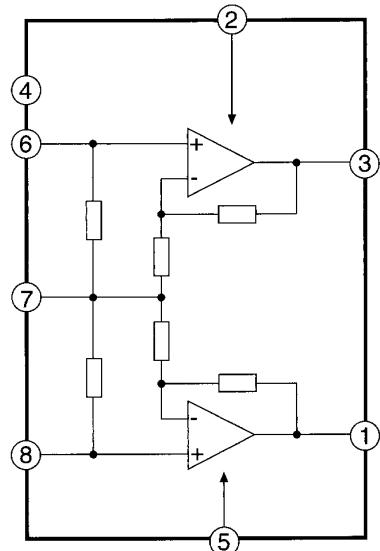
FMN-G12S
RGP10GPKG23
RU3YX-LF-C4
RU-3YX-V1
RU4AM-T3
1SS292T-77

GBU4JL-6088

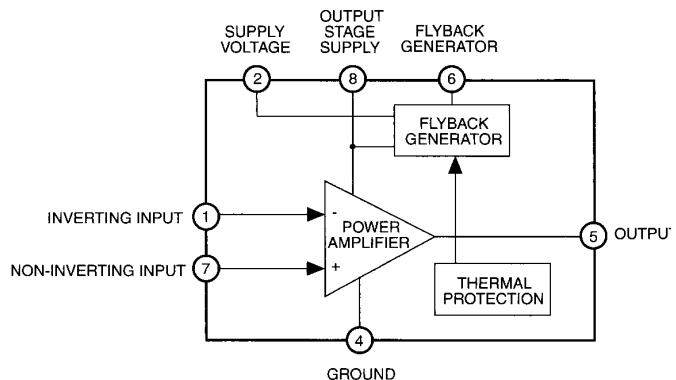


5-5. IC BLOCK DIAGRAMS

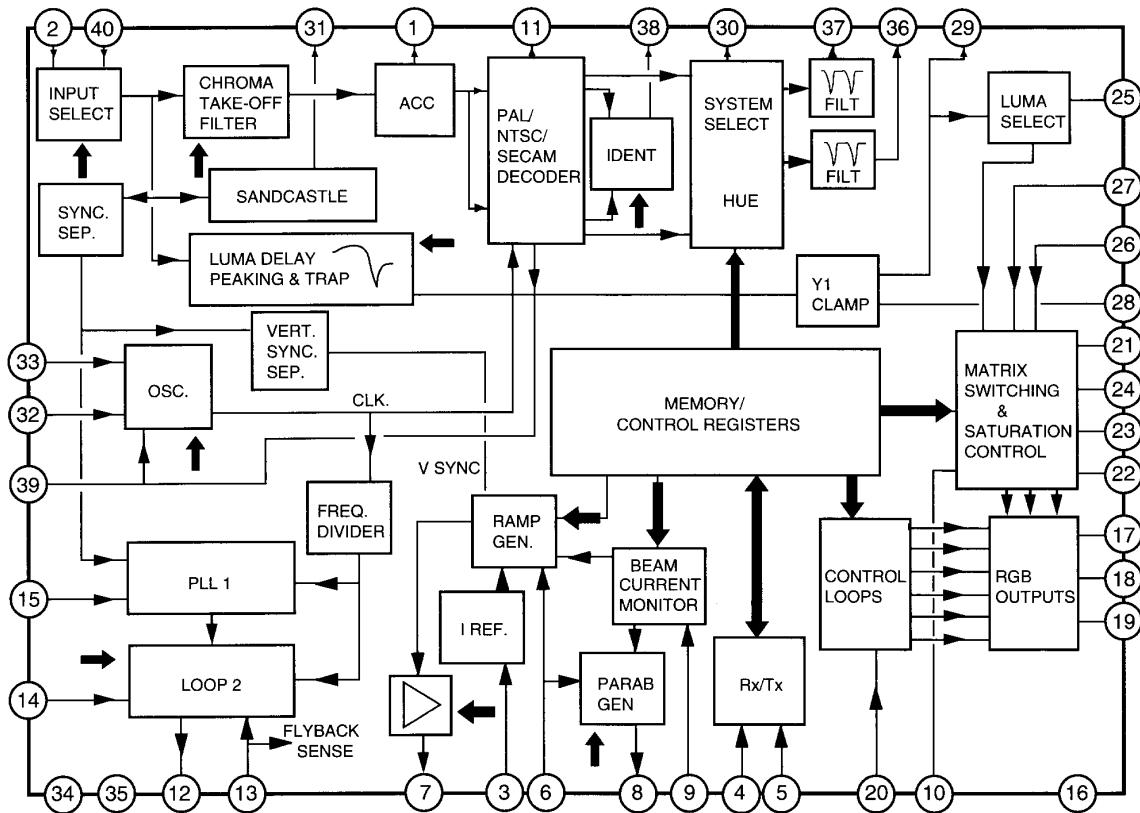
A Board IC1200 TDA7264



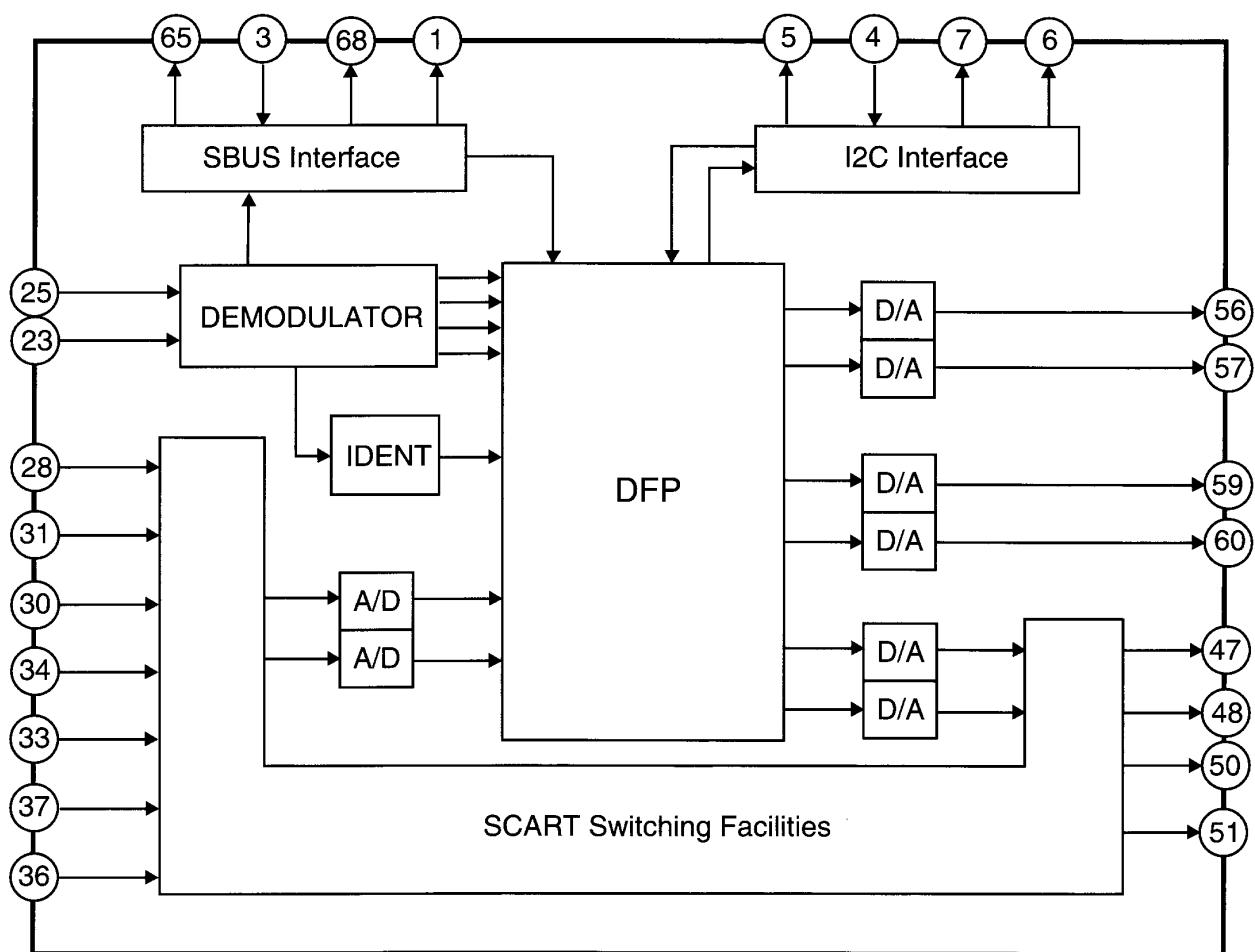
A Board IC501 STV9379



A Board IC301



A Board IC20 MSP3400C-PP-C6/MSP3410D-PP-B3



SECTION 6

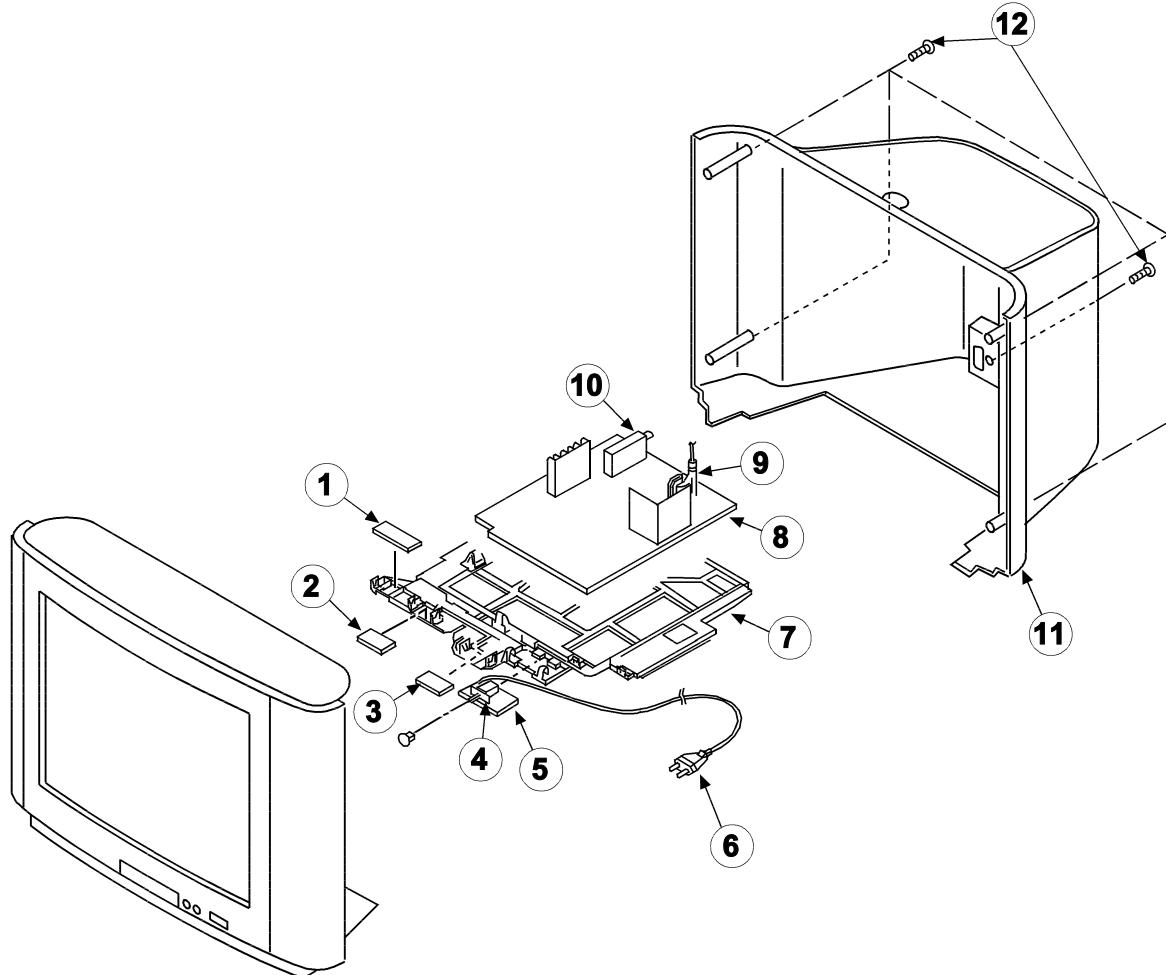
EXPLODED VIEWS

NOTE :

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

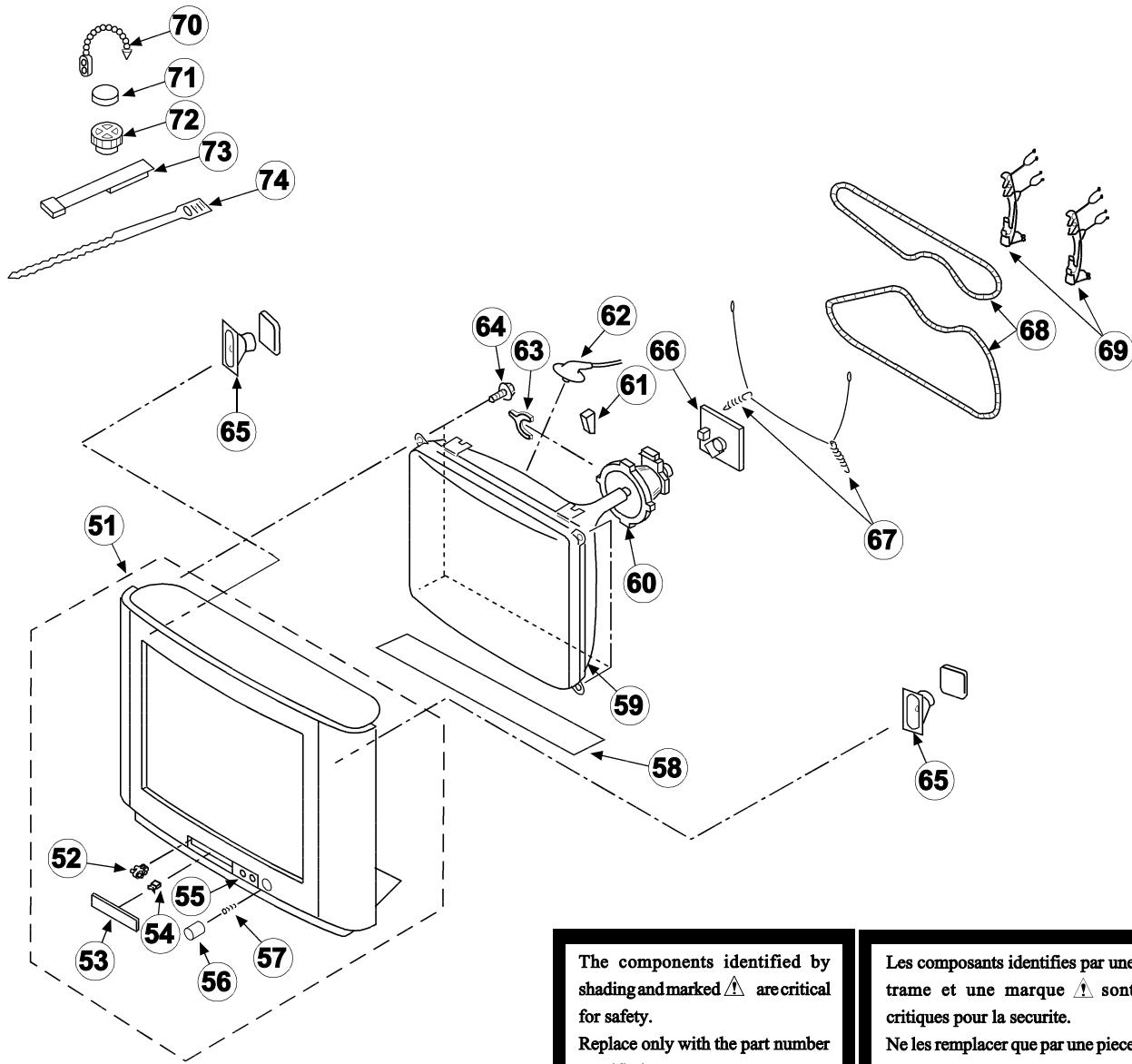
The components identified by shading and marked **⚠** are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque **⚠** sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

6-1. KV-21C4 CHASSIS

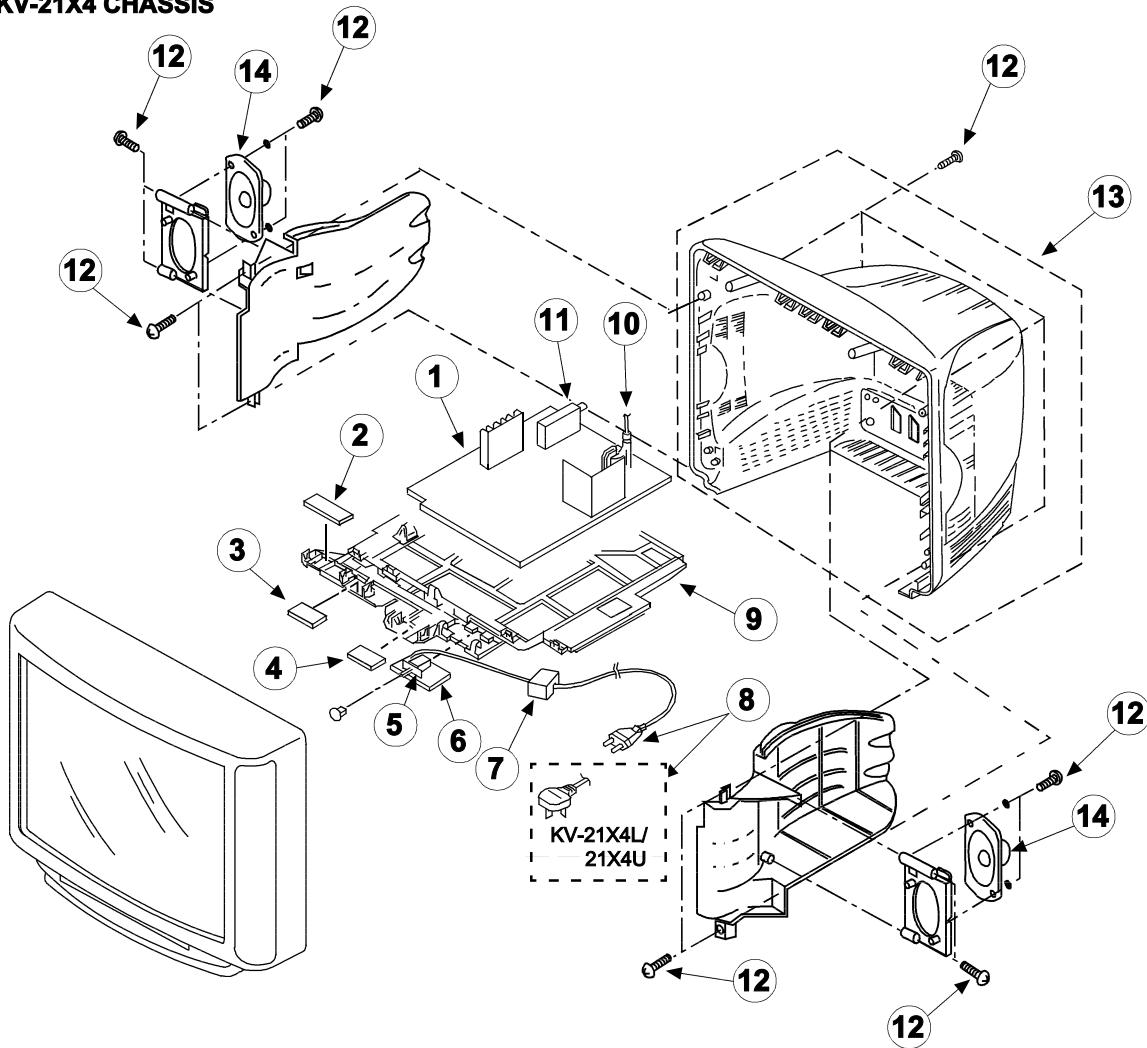
REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
1	*A-1646-145-A	H1 BOARD, COMPLETE		9	⚠ 1-453-200-11	TRANSFORMER ASSY, FLYBACK NX-1741/U2B	
2	*A-1646-147-A	H3 BOARD, COMPLETE		10	1-693-340-11	TUNER/VIF (FR) (KV-21C4B)	
3	*A-1646-146-A	H2 BOARD, COMPLETE			1-693-338-11	TUNER/VIF (AEP) (KV-21C4D/21C4E/ 21C4K/21C4R)	
4	⚠ 1-571-433-21	SWITCH, PULSE (AC POWER)		11	4-203-604-01	COVER, REAR	
5	*A-1642-063-A	F1 BOARD, COMPLETE		12	7-685-663-79	SCREW (4X16), (+) EV TAPPING	
6	⚠ 1-590-501-11	CORD, POWER (WITH NOISE FILTER)					
7	*4-203-605-11	BRACKET					
8	*A-1632-667-A	A BOARD, COMPLETE (KV-21C4B)					
	*A-1632-662-A	A BOARD, COMPLETE (KV-21C4D)					
	*A-1632-638-A	A BOARD, COMPLETE (KV-21C4E)					
	*A-1632-668-A	A BOARD, COMPLETE (KV-21C4K)					
	*A-1632-669-A	A BOARD, COMPLETE (KV-21C4R)					

6-2. KV21C4 PICTURE TUBE



REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
51	X-4200-337-1	BEZNET ASSY	52-57	62	1-540-006-22	CAP ASSY, HIGH-VOLTAGE	
52	3-703-035-11	SHAFT, LID		63	1-452-277-00	MAGNET, BMC	
53	4-203-852-01	DOOR, CONTROL (PAINTED)		64	4-365-808-01	SCREW (5), TAPPING	
		(KV-21C4B/21C4E)		65	1-504-570-11	SPEAKER (7.5X13CM)	
	4-203-852-11	DOOR, CONTROL (PAINTED)		66	*A-1638-102-A	C BOARD, COMPLETE	
		(KV-21C4D/21C4K/21C4R)		67	4-369-318-21	SPRING, TENSION	
54	4-047-464-01	CATCHER PUSH		68	1-411-922-11	COIL DEGAUSSING	
55	4-203-175-01	WINDOW ORNAMENTAL		69	*4-386-622-11	BAND, DGC	
56	4-203-176-01	BUTTON, POWER		70	4-308-870-00	CLIP, LEAD WIRE	
57	4-202-964-01	SPRING		71	1-452-032-00	MAGNET, DISK; 10MM Ø	
58	4-203-128-01	SHEET BLOTTING		72	1-452-094-00	MAGNET, ROTATABLLE DISK; 15MM Ø	
59	8-738-783-05	PICTURE TUBE (SD-169) (A51JXH61X)		73	X-4387-214-1	PERMALLOY ASSY, CORRECTION	
60	8-451-295-43	DEFLECTION YOKE (Y21PFA2)		74	3-701-007-00	BAND, BINDING	
61	3-704-495-01	SPACER, DY					

6-3. KV-21X4 CHASSIS

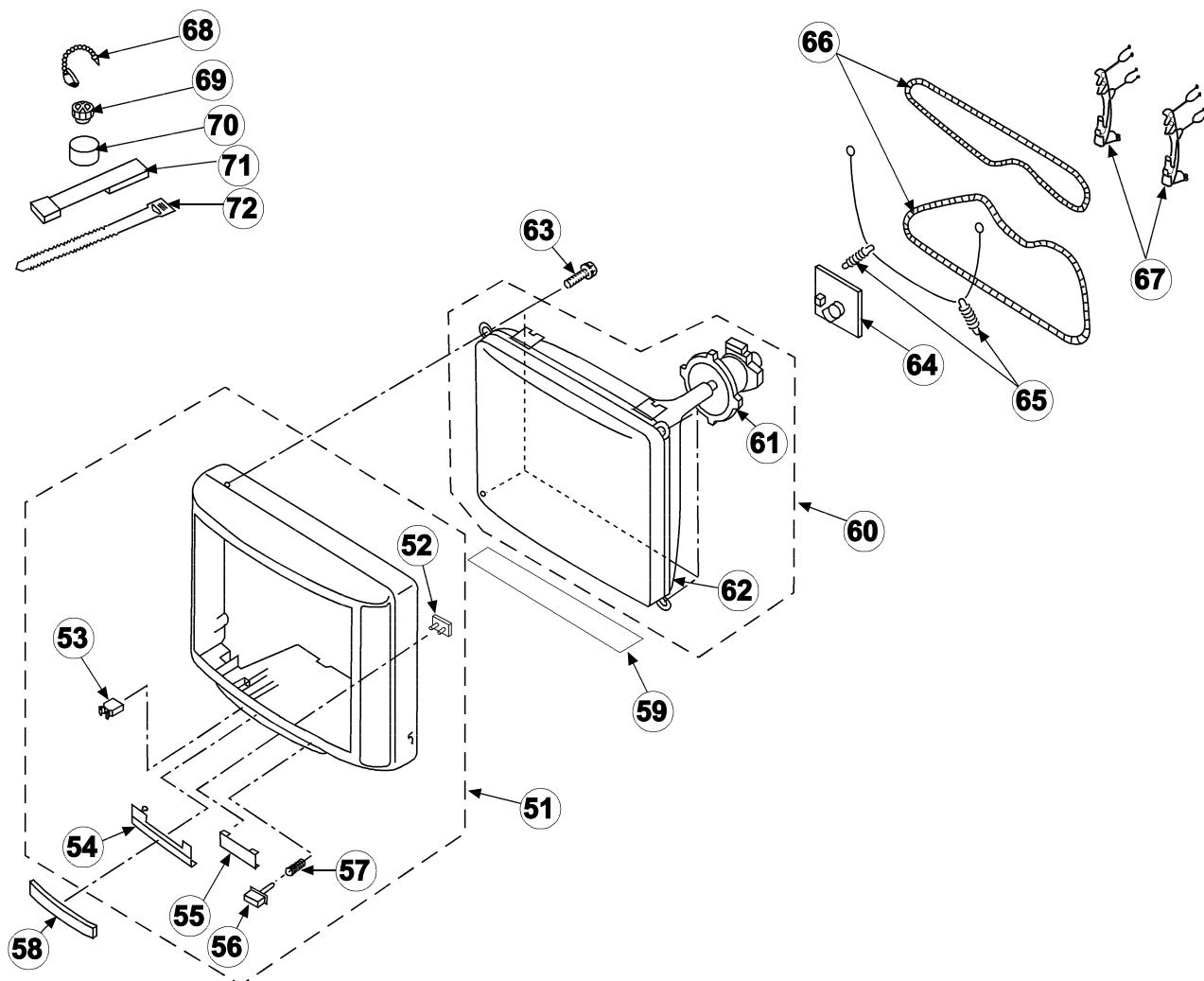


The components identified by shading and marked  are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
1	*A-1632-680-A	A BOARD, COMPLETE (KV-21X4A)		8	1-765-286-11	CORD POWER (KV-21X4A/21X4B/21X4D/21X4E/21X4K/21X4R)	
	*A-1632-677-A	A BOARD, COMPLETE (KV-21X4B)			1-776-204-11	CORD POWER (FILTER) 2.5A/250V (KV-21X4L/21X4U)	
	*A-1632-678-A	A BOARD, COMPLETE (KV-21X4D)		9	*4-203-594-01	BRACKET	
	*A-1632-651-A	A BOARD, COMPLETE (KV-21X4E)		10	1-453-199-11	TRANSFORMER ASSY, FLYBACK NX-1741/U2A	
	*A-1632-683-A	A BOARD, COMPLETE (KV-21X4K)		11	1-693-338-11	TUNER/VIF (AEP) (KV-21X4A/21X4D/21X4E/21X4K/21X4L/21X4R)	
	*A-1632-684-A	A BOARD, COMPLETE (KV-21X4L)			1-693-340-11	TUNER/VIF (FR) (KV-21X4B)	
	*A-1632-681-A	A BOARD, COMPLETE (KV-21X4R)			1-693-339-11	TUNER/VIF (UK) (KV-21X4U)	
	*A-1632-682-A	A BOARD, COMPLETE (KV-21X4U)		12	4-039-358-01	SCREW (4X16), (+) EV TAPPING	
2	*A-1646-148-A	H1 BOARD, COMPLETE		13	X-4200-286-1	COVER ASSY REAR (SC)	
3	*A-1646-150-A	H3 BOARD, COMPLETE		14	1-544-727-21	SPEAKER (7.5X13CM)	
4	*A-1646-149-A	H2 BOARD, COMPLETE					
5	1-571-433-21	SWITCH PUSH (AC POWER)					
6	*A-1624-064-A	F1 BOARD, COMPLETE					
7	4-389-201-11	HOLDER, AC CORD					

6-4. KV-21X4 PICTURE TUBE



The components identified by shading and marked  are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
51	X-4200-298-1	BEZNET ASSY		52	8-738-784-05	PICTURE TUBE (SD-169) (A51JXH61X)	
52	4-202-465-01	GUIDE, LED LIGHT		63	4-036-189-01	SCREW SELF TAPPING	
53	4-047-464-01	CATCHER PUSH		64	*A-1638-090-A	C BOARD, COMPLETE	
54	4-202-642-01	DOOR		65	4-200-433-01	SPRING, EXTENSION	
55	4-202-643-21	WINDOW ORNAMENTAL		66	1-406-828-11	COIL DEGAUSSING	
56	4-043-517-01	BUTTON POWER		67	*4-386-622-11	BAND, DGC	
57	4-202-746-11	SPRING, COMPRESSION		68	4-308-870-00	CLIP, LEAD WIRE	
58	4-202-644-11	ORNAMENT, DOOR		69	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø	
59	4-203-128-11	SHEET, BLOTTING		70	1-452-032-00	MAGNET, DISK; 10MM Ø	
60	8-738-783-71	ITC	61-62	71	X-4387-214-1	PERMALLOY ASSY, CORRECTION	
61	8-451-295-45	DEFLECTION YOKE (Y21PFA2BA)		72	3-701-007-00	BAND, BINDING	

SECTION 7

ELECTRICAL PARTS LIST

When indicating parts by reference number, please include the board name.

CAPACITORS **COILS**
 MF : mF, PF : mmF MMH : mH, μ H : μ H

F1 **A**

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and marked Δ are critical for safety. Replace only with the part number specified.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All resistors are in ohms
- F : nonflammable

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
*A-1624-063-A F1 BOARD, COMPLETE							

(KV-21C4B/21C4D/21C4E/21C4K/21C4R)							
*A-1624-064-A F1 BOARD, COMPLETE							

(KV-21X4A/21X4B/21X4D/21X4E/21X4K/21X4L/21X4R/21X4U)							
< CONNECTOR >							
CN603 Δ 1-580-844-11 PIN, CONNECTOR (POWER)							
CN604 Δ 1-695-292-11 PIN, CONNECTOR (POWER)							
< FUSE >							
F601 Δ 1-576-231-21 FUSE (4A 250V)							
F601 Δ *1-533-725-11 HOLDER, FUSE							
< SWITCH >							
S601 Δ 1-571-433-21 SWITCH, PUSH (AC POWER)							

*A-1632-667-A A BOARD, COMPLETE							

(KV-21C4B)							
*A-1632-662-A A BOARD, COMPLETE							

(KV-21C4D)							
*A-1632-638-A A BOARD, COMPLETE							

(KV-21C4E)							
*A-1632-668-A A BOARD, COMPLETE							

(KV-21C4K)							
*A-1632-669-A A BOARD, COMPLETE							

(KV-21C4R)							
*A-1632-680-A A BOARD, COMPLETE							

(KV-21X4A)							
*A-1632-677-A A BOARD, COMPLETE							

(KV-21X4B)							
*A-1632-678-A A BOARD, COMPLETE							

(KV-21X4D)							
*A-1632-651-A A BOARD, COMPLETE							

(KV-21X4E)							
*A-1632-683-A A BOARD, COMPLETE							

(KV-21X4K)							
*A-1632-684-A A BOARD, COMPLETE							

(KV-21X4L)							
*A-1632-681-A A BOARD, COMPLETE							

(KV-21X4R)							
*A-1632-682-A A BOARD, COMPLETE							

(KV-21X4U)							
< CAPACITOR >							
C002	1-126-968-11	ELECT	100MF	20%	50V		
C003	1-164-492-11	CERAMIC CHIP	0.15MF	10%	16V		
C004	1-163-034-00	CERAMIC CHIP	0.033MF		50V		
C005	1-163-105-00	CERAMIC CHIP	33PF	5%	50V		
C006	1-163-105-00	CERAMIC CHIP	33PF	5%	50V		
C007	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V		
C008	1-126-965-11	ELECT	22MF	20%	50V		
C009	1-126-961-11	ELECT	2.2MF	20%	50V		
C011	1-163-243-11	CERAMIC CHIP	47PF	5%	50V		
C012	1-163-109-00	CERAMIC CHIP	47PF	5%	50V		
			(KV-21C4B/21C4E/21C4K/21C4R)				
	1-163-113-00	CERAMIC CHIP	68PF	5%	50V		
			(KV-21C4D/21C4)				
			(KV-21X4A/21X4B/21X4D/21X4E/21X4K/21X4L/21X4R/21X4U)				
C013	1-163-078-11	CERAMIC CHIP	0.033MF	10%	25V		
C014	1-164-346-11	CERAMIC CHIP	1MF		16V		
C015	1-163-121-00	CERAMIC CHIP	150PF	5%	50V		
C017	1-162-638-11	CERAMIC CHIP	1MF		16V		
C018	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V		
C019	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V		
C020	1-163-038-00	CERAMIC CHIP	0.1MF		25V		
C021	1-164-005-11	CERAMIC CHIP	0.47MF		25V		
C022	1-126-960-11	ELECT	1MF	20%	50V		
C024	1-126-965-11	ELECT	22MF	20%	50V		
C025	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V		
C026	1-126-965-11	ELECT	22MF	20%	50V		
C027	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V		
C028	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V		
C029	1-163-077-00	CERAMIC CHIP	0.1MF		50V		
C030	1-163-077-00	CERAMIC CHIP	0.1MF		50V		
C031	1-163-038-00	CERAMIC CHIP	0.1MF		25V		
C034	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V		
C035	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V		
C036	1-126-965-11	ELECT	22MF	20%	50V		
C037	1-164-346-11	CERAMIC CHIP	1MF		16V		
C038	1-164-346-11	CERAMIC CHIP	1MF		16V		
C039	1-163-205-00	CERAMIC CHIP	0.001MF	10%	50V		
C040	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V		
C041	1-126-965-11	ELECT	22MF	20%	50V		
C042	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V		
C044	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V		
C045	1-164-505-11	CERAMIC CHIP	2.2MF		16V		
C046	1-163-117-00	CERAMIC CHIP	100PF	5%	50V		
C099	1-165-320-11	CERAMIC CHIP	0.47MF	10%	16V		

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK		
C121	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	C313	1-163-137-00	CERAMIC CHIP 680PF	5%	50V
C122	1-163-249-11	CERAMIC CHIP 82PF	5%	50V	C314	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C123	1-163-139-00	CERAMIC CHIP 820PF	5%	50V	C315	1-163-038-00	CERAMIC CHIP 0.1MF	25V	
C124	1-163-249-11	CERAMIC CHIP 82PF	5%	50V	C316	1-163-038-00	CERAMIC CHIP 0.1MF	25V	
C131	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	C317	1-163-038-00	CERAMIC CHIP 0.1MF	25V	
C135	1-126-934-11	ELECT 220MF	20%	16V	C319	1-163-038-00	CERAMIC CHIP 0.1MF	25V	
C136	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	C320	1-163-038-00	CERAMIC CHIP 0.1MF	25V	
C162	1-126-967-11	ELECT 47MF	20%	16V	C321	1-126-963-11	ELECT 4.7MF	20%	50V
C201	1-126-965-11	ELECT 22MF	20%	50V	C322	1-163-101-00	CERAMIC CHIP 22PF	5%	50V
C202	1-126-941-11	ELECT 470MF	20%	25V	C323	1-163-099-00	CERAMIC CHIP 18PF	5%	50V
C205	1-126-963-11	ELECT 4.7MF	20%	50V	C324	1-163-119-00	CERAMIC CHIP 120PF	5%	50V
C206	1-126-933-11	ELECT 100MF	20%	16V	C325	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C207	1-126-933-11	ELECT 100MF	20%	16V	C326	1-163-038-00	CERAMIC CHIP 0.1MF	25V	
C208	1-126-963-11	ELECT 4.7MF	20%	50V	C327	1-163-005-11	CERAMIC CHIP 470PF	10%	50V
C210	1-163-033-91	CERAMIC CHIP 0.022MF		50V	C328	1-163-038-71	CERAMIC CHIP 0.1MF	25V	
C211	1-126-965-11	ELECT 22MF	20%	50V	C329	1-163-016-00	CERAMIC CHIP 0.0039MF	10%	50V
C213	1-164-005-11	CERAMIC CHIP 0.47MF		25V	C330	1-163-038-00	CERAMIC CHIP 0.1MF	25V	
C214	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V	C332	1-126-965-11	ELECT 22MF	20%	50V
C215	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	C333	1-107-715-11	ELECT 22MF	20%	16V
		(KV-21C4B/21X4B)			C341	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C216	1-163-109-00	CERAMIC CHIP 47PF	5%	50V	C345	1-163-259-91	CERAMIC CHIP 220PF	5%	50V
C217	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	C347	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C218	1-164-005-11	CERAMIC CHIP 0.47MF		25V	C348	1-163-031-11	CERAMIC CHIP 0.01MF		50V
C219	1-126-964-11	ELECT 10MF	20%	50V	C349	1-126-965-11	ELECT 22MF	20%	50V
C220	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	C353	1-163-125-00	CERAMIC CHIP 220PF	5%	50V
C221	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	C354	1-163-005-11	CERAMIC CHIP 470PF	10%	50V
		(KV-21C4B/21X4B)			C355	1-163-059-91	CERAMIC CHIP 0.01MF	10%	50V
C223	1-163-133-00	CERAMIC CHIP 470PF	5%	50V	C359	1-126-965-11	ELECT 22MF	20%	50V
C224	1-163-133-00	CERAMIC CHIP 470PF	5%	50V	C360	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V
C225	1-126-964-11	ELECT 10MF	20%	50V	C401	1-126-967-11	ELECT 47MF	20%	16V
C226	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	C402	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C227	1-163-084-00	CERAMIC CHIP 1.5PF	0.25PF	50V	C403	1-164-346-11	CERAMIC CHIP 1MF		16V
C228	1-163-084-00	CERAMIC CHIP 1.5PF	0.25PF	50V	C404	1-164-346-11	CERAMIC CHIP 1MF		16V
C229	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V	C405	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C230	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V	C406	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C231	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V	C410	1-126-967-11	ELECT 47MF	20%	16V
C232	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V	C411	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C233	1-163-003-11	CERAMIC CHIP 330PF	10%	50V	C412	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C234	1-163-003-11	CERAMIC CHIP 330PF	10%	50V	C413	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C235	1-126-964-11	ELECT 10MF	20%	50V	C414	1-126-967-11	ELECT 47MF	20%	16V
C236	1-126-964-11	ELECT 10MF	20%	50V	C415	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C240	1-107-823-11	CERAMIC CHIP 0.47MF	10%	16V	C416	1-126-965-11	ELECT 22MF	20%	50V
C242	1-164-346-11	CERAMIC CHIP 1MF		16V	C417	1-126-965-11	ELECT 22MF	20%	50V
C243	1-164-346-11	CERAMIC CHIP 1MF		16V	C418	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C244	1-164-346-11	CERAMIC CHIP 1MF		16V	C419	1-164-346-11	CERAMIC CHIP 1MF		16V
C245	1-164-346-11	CERAMIC CHIP 1MF		16V	C420	1-164-346-11	CERAMIC CHIP 1MF		16V
C246	1-126-965-11	ELECT 22MF	20%	50V	C421	1-164-337-11	CERAMIC CHIP 2.2MF		16V
C247	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V	C422	1-164-337-11	CERAMIC CHIP 2.2MF		16V
C300	1-126-942-61	ELECT 1000MF	20%	25V	C423	1-164-337-11	CERAMIC CHIP 2.2MF		16V
C301	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	C424	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V
C302	1-163-038-71	CERAMIC CHIP 0.1MF		25V	C425	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V
C303	1-126-965-11	ELECT 22MF	20%	50V	C500	1-130-489-00	FILM 0.033MF	5%	50V
C304	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	C501	1-126-963-11	ELECT 4.7MF	20%	50V
C305	1-124-257-00	ELECT 2.2MF	20%	50V	C502	1-163-077-00	CERAMIC CHIP 0.1MF		50V
C306	1-136-164-00	FILM 0.082MF	5%	50V	C503	1-126-952-11	ELECT 1000MF	20%	35V
C307	1-163-077-00	CERAMIC CHIP 0.1MF	10%	25V	C504	1-126-968-11	ELECT 100MF	20%	50V
C308	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	C505	1-126-941-11	ELECT 470MF	20%	25V
C309	1-126-163-11	ELECT 4.7MF	20%	50V	C506	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C310	1-163-077-00	CERAMIC CHIP 0.1MF	10%	25V					
C312	1-163-038-00	CERAMIC CHIP 0.1MF		25V					

The components identified by shading and marked \triangle are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque \triangle sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK				
C507	1-126-965-11	ELECT	22MF	20%	50V	C815	1-162-134-11	CERAMIC	470PF	10%	2KV
C508	1-130-785-11	MYLAR	0.47MF	10%	100V	C817	1-136-559-11	MYLAR	0.0047MF	10%	400V
C510	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C818	1-136-933-11	FILM	1MF	5%	100V
C511	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C819	1-162-318-11	CERAMIC	0.001MF	10%	500V
C601 \triangle	1-136-516-12	FILM	0.1MF	20%	300V	C820	1-126-951-11	ELECT	470MF	20%	35V
C602 \triangle	1-136-516-12	FILM	0.1MF	20%	300V	C822	1-104-696-11	FILM	0.015MF	10%	100V
C603 \triangle	1-117-700-61	CERAMIC	0.0022MF	99%	250V	C823	1-106-375-12	MYLAR	0.022MF	10%	250V
C604 \triangle	1-117-700-61	CERAMIC	0.0022MF	99%	250V	C824	1-106-367-00	MYLAR	0.01MF	10%	400V
C605 \triangle	1-161-964-91	CERAMIC	0.0047MF	250V	C825	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C606 \triangle	1-161-964-91	CERAMIC	0.0047MF	250V	C826	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C610	1-104-665-11	ELECT	100MF	20%	25V	C827	1-163-011-11	CERAMIC CHIP	0.0015MF	10%	50V
C611	1-136-538-11	FILM	0.001MF	3%	2KV	C828	1-126-960-11	ELECT	1MF	20%	50V
C612	1-107-929-11	ELECT	10MF	20%	100V	C1200	1-136-165-00	FILM	0.1MF	5%	50V
C613	1-162-318-11	CERAMIC	0.001MF	10%	500V	C1201	1-136-173-00	FILM	0.47MF	5%	50V
C614	1-104-666-11	ELECT	220MF	20%	25V	C1202	1-136-173-00	FILM	0.47MF	5%	50V
C615	1-124-347-00	ELECT	100MF	20%	160V	C1203	1-136-169-00	FILM	0.22MF	5%	50V
C616	1-162-116-00	CERAMIC	680PF	10%	2KV	C1204	1-136-169-00	FILM	0.22MF	5%	50V
C617	1-107-929-11	ELECT	10MF	20%	100V	C1205	1-101-004-00	CERAMIC	0.01MF		50V
C618	1-102-228-00	CERAMIC	470PF	10%	500V	C1206	1-101-004-00	CERAMIC	0.01MF		50V
C619	1-126-942-61	ELECT	1000MF	20%	25V	C1215	1-136-173-00	FILM	0.47MF	5%	50V
C621	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	C1216	1-137-366-11	FILM	0.0022MF	5%	50V
C622	1-126-965-11	ELECT	22MF	20%	50V	C1217	1-137-366-11	FILM	0.0022MF	5%	50V
C623	1-111-055-91	ELECT	56MF	20%	25V	< FILTER >					
C624	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	CF001	1-767-120-21	VIBRATOR, CERAMIC			
C625	1-126-967-11	ELECT	47MF	20%	50V	CF200	1-409-327-00	TRAP, CERAMIC (6.5MHZ)	(KV-21C4B/21X4B)		
C626	1-102-228-00	CERAMIC	470PF	10%	500V	< CONNECTOR >					
C627	1-111-097-11	ELECT	0.0022F	20%	35V	CN001	*1-564-508-11	PLUG, CONNECTOR 5P			
C628	1-126-964-11	ELECT	10MF	20%	50V	CN081	*1-568-881-51	PIN, CONNECTOR 6P			
C629	1-126-933-11	ELECT	100MF	20%	16V	CN082	*1-568-880-51	PIN, CONNECTOR 5P			
C630	1-113-473-11	ELECT (BLOCK)	180MF	20%	400V	CN201	*1-568-879-11	PIN, CONNECTOR 4P			
	(KV-21C4B/21C4D/21C4E/21C4K) (KV-21X4A/21X4B/21X4D/21X4E/ 21X4K/21X4L/21X4U)					CN402	*1-564-512-11	PLUG, CONNECTOR 9P			
	1-117-751-11 ELECT(BLOCK) 220MF (KV-21C4R/KV-21X4R)					CN403	*1-564-518-11	PLUG, CONNECTOR 3P			
	(KV-21C4R/KV-21X4R)					CN404	*1-564-519-11	PLUG, CONNECTOR 4P			
C631	1-124-910-11	ELECT	47MF	20%	50V	CN601 \triangle	*1-695-292-11	PIN, CONNECTOR (POWER)			
C632	1-130-785-11	MYLAR	0.47MF	10%	100V	CN603 \triangle	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P			
C633	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	CN801	*1-580-798-11	CONNECTOR PIN (DY) 6P			
C634	1-104-665-11	ELECT	100MF	20%	25V	< DIODE >					
C635	1-111-097-11	ELECT	0.0022F	20%	35V	D002	8-719-982-27	DIODE MTZJ-33C			
C636	1-102-228-00	CERAMIC	470PF	10%	500V	D003	8-719-914-43	DIODE DAN202K			
C638	1-163-205-00	CERAMIC CHIP	0.001MF	10%	50V	D004	8-719-991-33	DIODE 1SS133T-77			
C639	1-102-228-00	CERAMIC	470PF	10%	500V	D005	8-719-914-43	DIODE DAN202K			
C640	1-102-110-00	CERAMIC	220PF	10%	50V	D006	8-719-914-43	DIODE DAN202K			
C641	1-106-228-00	MYLAR	0.22MF	10%	100V	D007	8-719-914-43	DIODE DAN202K			
C645	1-104-666-11	ELECT	220MF	20%	25V	D009	8-719-976-99	DIODE DTZ5.1B			
C646	1-163-038-00	CERAMIC CHIP	0.1MF	25V	D011	8-719-976-99	DIODE DTZ5.1B				
C647	1-163-038-00	CERAMIC CHIP	0.1MF	25V	D012	8-719-992-02	DIODE RB705D				
C800	1-107-650-11	ELECT	3.3MF	20%	250V	D014	8-719-056-84	DIODE UDZ-TE-17-7.5B			
C801	1-129-746-00	FILM	0.039MF	10%	400V	D301	8-719-991-33	DIODE 1SS133T-77			
C802	1-136-079-00	FILM	0.01MF	3%	2KV	D302	8-719-991-33	DIODE 1SS133T-77			
C803	1-136-109-00	FILM	0.68MF	5%	200V	D306	8-719-976-99	DIODE DTZ5.1B			
C804	1-126-959-11	ELECT	0.47MF	20%	50V	D307	8-719-914-43	DIODE DAN202K			
C805	1-102-228-00	CERAMIC	470PF	10%	500V	D308	8-719-991-33	DIODE 1SS133T-77	(KV-21C4B/21X4B)		
C806	1-102-244-00	CERAMIC	220PF	10%	500V	D338	8-719-914-43	DIODE DAN202K	(KV-21C4B/21X4B)		
C807	1-107-651-11	ELECT	4.7MF	20%	250V	D401	8-719-109-97	DIODE RD6.8ES-B2			
C809	1-162-134-11	CERAMIC	470PF	10%	2KV	D402	8-719-109-97	DIODE RD6.8ES-B2			
C810	1-129-702-00	FILM	0.001MF	10%	400V	D403	8-719-109-97	DIODE RD6.8ES-B2			
C812	1-163-121-00	CERAMIC CHIP	150PF	5%	50V	D404	8-719-109-97	DIODE RD6.8ES-B2			
C813	1-162-115-00	CERAMIC	330PF	10%	2KV	D405	8-719-109-97	DIODE RD6.8ES-B2			
C814	1-136-159-00	FILM	0.033MF	5%	50V						

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D406	8-719-109-97	DIODE RD6.8ES-B2		FB607	1-412-911-11	INDUCTOR, FERRITE BEAD	
D407	8-719-109-97	DIODE RD6.8ES-B2				< ENCAPSULATED FILTER >	
D408	8-719-110-14	DIODE RD9.1ES-B3		FL201	1-239-803-11	FILTER, EMI	
D409	8-719-110-14	DIODE RD9.1ES-B3				< IC >	
D410	8-719-110-14	DIODE RD9.1ES-B3		IC002	8-759-437-34	IC ST24W04FB6	
D411	8-719-991-33	DIODE 1SS133T-77		IC004	8-759-073-00	IC TEA2114	
D412	8-719-109-97	DIODE RD6.8ES-B2		IC005	8-759-510-54	IC PST572D	
D413	8-719-991-33	DIODE 1SS133T-77		IC200	8-759-481-43	IC MSP3410D-PP-B3 (KV-21C4B/21C4E/21C4K)	
D414	8-719-056-84	DIODE UDV-TE-17-7.5B				(KV-21X4B/21X4E/21X4K/21X4L/21X4U)	
D415	8-719-110-14	DIODE RD9.1ES-B3			8-759-429-97	IC MSP3400C-PP-C6 (KV-21C4D/21C4R)	
D416	8-719-056-84	DIODE UDV-TE-17-7.5B				(KV-21X4A/21X4D/21X4R)	
D417	8-719-056-84	DIODE UDV-TE-17-7.5B					
D418	8-719-056-84	DIODE UDV-TE-17-7.5B					
D421	8-719-109-97	DIODE RD6.8ES-B2					
D501	8-719-302-43	DIODE ELIZ					
D602	8-719-991-33	DIODE 1SS133T-77		IC201	8-759-502-21	IC TDA2822M	
D603	8-719-109-97	DIODE RD6.8ES-B2		IC301	8-759-333-45	IC MC44002P	
D604	8-719-302-43	DIODE ELIZ		IC302	8-759-333-46	IC MC44140P	
D605	8-719-302-43	DIODE ELIZ		IC401	8-759-064-91	IC NJM2233BL	
D606	8-719-028-89	DIODE EK04.V1		IC501	8-759-192-71	IC STV9379	
D607	8-719-046-78	DIODE EG-1Z-V1			4-202-373-01	SPRING, IC (IC501)	
D608	8-719-302-43	DIODE ELIZ		IC600	8-749-924-99	IC STR-S6707	
D609	8-719-312-10	DIODE RU4AM-T3			4-202-373-01	SPRING, IC (IC600)	
D610	8-719-025-88	DIODE GBU4JL-6088		IC601	8-749-010-64	PHOTO COUPLER PC123FY2	
D612	8-719-046-76	DIODE RU3YX-LF-C4		IC602	8-749-920-61	IC SE-135N	
D613	8-719-058-38	DIODE FMN-G12S		IC603	8-759-507-29	IC LM7808CT	
D614	8-719-109-97	DIODE RD6.8ES-B2		IC604	8-759-457-41	IC KA76L05Z	
D615	8-719-302-43	DIODE ELIZ		IC605	8-759-510-52	IC L4941BV	
D616	8-719-110-03	DIODE RD7.5ES-B2			4-202-373-01	SPRING, IC (IC605)	
D617	8-719-991-33	DIODE 1SS133T-77		IC1200	8-759-473-02	IC TDA7269	
D619	8-719-046-78	DIODE EG-1Z-V1			4-202-710-01	SPACER, INSULATING (IC1200)	
D620	8-719-110-14	DIODE RD9.1ES-B3			4-202-373-01	SPRING, IC (IC1200)	
D621	8-719-058-38	DIODE FMN-G12S					
D622	8-719-991-33	DIODE 1SS133T-77					
D623	8-719-924-16	DIODE MTZJ-T-77-24		J401	1-695-551-11	SOCKET 21P	
D625	8-719-991-33	DIODE 1SS133T-77					
D626	8-719-302-43	DIODE ELIZ					
D627	8-719-991-33	DIODE 1SS133T-77					
D801	8-719-950-57	DIODE BYD33G		L001	1-414-181-11	INDUCTOR 4.7UH	
D802	8-719-302-43	DIODE ELIZ		L108	1-414-740-21	INDUCTOR 4.7UH	
D803	8-719-945-80	DIODE ERC06-15S		L111	1-408-408-00	INDUCTOR 8.2UH	
D805	8-719-928-08	DIODE ERD28-08S		L112	1-408-397-00	INDUCTOR 1UH	
D806	8-719-302-43	DIODE ELIZ		L113	1-408-408-00	INDUCTOR 8.2UH	
D807	8-719-991-33	DIODE 1SS133T-77		L200	1-408-406-00	INDUCTOR 5.6UH	
D809	8-719-302-43	DIODE ELIZ					(KV-21C4B/21X4B)
D1200	8-719-109-72	DIODE RD3.9ES-B2		L201	1-535-465-11	LEAD, JUMPER (5.0MM)	
				L203	1-410-385-11	INDUCTOR CHIP 22UH	
				L204	1-410-385-11	INDUCTOR CHIP 22UH	
				L301	1-410-989-11	INDUCTOR CHIP 0.47UH	
				L302	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
F601	1-535-143-31	LEAD, JUMPER (15.0MM)		L401	1-535-465-11	LEAD, JUMPER (5.0MM)	
				L402	1-535-465-11	LEAD, JUMPER (5.0MM)	
				L403	1-535-465-11	LEAD, JUMPER (5.0MM)	
FB001	1-412-911-11	INDUCTOR, FERRITE BEAD		L404	1-535-465-11	LEAD, JUMPER (5.0MM)	
FB002	1-412-911-11	INDUCTOR, FERRITE BEAD		L405	1-408-409-00	INDUCTOR 10UH	
FB003	1-412-911-11	INDUCTOR, FERRITE BEAD		L406	1-408-409-00	INDUCTOR 10UH	
FB600	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH		L407	1-408-409-00	INDUCTOR 10UH	
FB601	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH		L408	1-408-409-00	INDUCTOR 10UH	
FB602	1-412-911-11	INDUCTOR, FERRITE BEAD		L409	1-410-985-11	INDUCTOR CHIP 0.22UH	
FB604	1-535-465-11	LEAD, JUMPER (5.0MM)		L410	1-408-409-00	INDUCTOR 10UH	
FB605	1-412-911-11	INDUCTOR, FERRITE BEAD		L411	1-408-409-00	INDUCTOR 10UH	
FB606	1-412-911-11	INDUCTOR, FERRITE BEAD		L412	1-410-985-11	INDUCTOR CHIP 0.22UH	

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The components identified by shading and marked **▲** are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque **▲** sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK		
L501	1-412-525-31	INDUCTOR	10UH	Q410	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
L609	1-414-743-21	INDUCTOR	47UH	Q411	8-729-620-06	TRANSISTOR 2SC3052-EF			
L611	1-414-743-21	INDUCTOR	47UH	Q500	8-729-017-06	TRANSISTOR 2SC4793			
L612	1-412-522-41	INDUCTOR	5.6UH	Q501	8-729-620-06	TRANSISTOR 2SC3052-EF			
L613	1-412-522-41	INDUCTOR	5.6UH	Q601	8-729-025-04	TRANSISTOR 2SC3852A			
L800	1-412-553-11	INDUCTOR	3.3MMH	Q602	8-729-320-28	TRANSISTOR 2SA1859			
L801	1-420-872-00	COIL, AIR-CORE		Q603	8-729-027-08	TRANSISTOR 2SC2389STP-R			
L802	1-411-635-11	COIL, AIR-CORE		Q604	8-729-024-35	TRANSISTOR 2SC2808STP-R			
L803	1-459-390-00	COIL (WITH CORE)		Q606	8-729-029-56	TRANSISTOR DTA144ESA			
L804	1-459-105-21	COIL (WITH CORE)		Q608	8-729-027-56	TRANSISTOR DTC143TKA-T146			
L805	1-412-531-31	INDUCTOR	33UH	Q617	8-729-119-78	TRANSISTOR 2SC2785-HFE			
L806	1-459-652-12	HLC		Q801	8-729-140-50	TRANSISTOR 2SC3209LK			
L807	1-535-465-11	LEAD, JUMPER (5.0MM)		Q802	8-729-033-85	TRANSISTOR S2000N-16E305A			
L808	1-535-143-71	LEAD, JUMPER (7.5MM)		4-382-854-11	SCREW (M3X10), P, SW (+) (Q802)				
< IC LINK >									
PS600	▲ 1-532-686-21	LINK, IC 2.7A (ICP-F75)		Q803	8-729-027-59	TRANSISTOR DTC144EKA-T146			
PS601	▲ 1-532-686-21	LINK, IC 2.7A (ICP-F75)		Q804	8-729-019-01	TRANSISTOR 2SD2394-EF			
PS603	▲ 1-532-686-21	LINK, IC 2.7A (ICP-F75)		*4-368-683-11	SPRING, TRANSISTOR (Q804)				
< TRANSISTOR >									
Q002	8-729-620-06	TRANSISTOR 2SC3052-EF		Q1200	8-729-620-06	TRANSISTOR 2SC2412K-T-146-R			
Q006	8-729-216-22	TRANSISTOR 2SA1162-G		Q1201	8-729-620-06	TRANSISTOR 2SC2412K-T-146-R			
Q007	8-729-620-06	TRANSISTOR 2SC3052-EF		< RESISTOR >					
Q008	8-729-620-06	TRANSISTOR 2SC3052-EF		JR039	1-216-295-00	CONDUCTOR, CHIP			
Q009	8-729-620-06	TRANSISTOR 2SC3052-EF		R001	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W		
Q011	8-729-027-59	TRANSISTOR DTC144EKA-T146		R002	1-216-025-00	METAL GLAZE	100 5% 1/10W		
Q012	8-729-620-06	TRANSISTOR 2SC3052-EF		R003	1-216-025-00	METAL GLAZE	100 5% 1/10W		
Q013	8-729-620-06	TRANSISTOR 2SC3052-EF		R004	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W		
Q014	8-729-620-06	TRANSISTOR 2SC3052-EF		R005	1-216-174-00	METAL GLAZE	100 5% 1/8W		
Q107	8-729-119-78	TRANSISTOR 2SC2785-HFE		R006	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W		
Q110	8-729-620-06	TRANSISTOR 2SC3052-EF		R007	1-216-089-00	METAL GLAZE	47K 5% 1/10W		
Q118	8-729-620-06	TRANSISTOR 2SC3052-EF		R012	1-249-437-11	CARBON	47K 5% 1/4W		
Q200	8-729-900-53	TRANSISTOR DTC114EKA		R013	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W		
Q201	8-729-027-56	TRANSISTOR DTC143TKA-T146		R014	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W		
Q202	8-729-027-56	TRANSISTOR DTC143TKA-T146		R016	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W		
Q204	8-729-620-06	TRANSISTOR 2SC3052-EF		R017	1-216-095-00	METAL GLAZE	82K 5% 1/10W		
Q205	8-729-620-06	TRANSISTOR 2SC3052-EF		R018	1-216-295-00	CONDUCTOR, CHIP			
Q207	8-729-620-06	TRANSISTOR 2SC3052-EF (KV-21C4B/21X4B)		R019	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W		
Q208	8-729-216-22	TRANSISTOR 2SA1162-G (KV-21C4B/21X4B)		R020	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W		
Q209	8-729-620-06	TRANSISTOR 2SC3052-EF (KV-21C4B/21X4B)		R021	1-216-258-00	METAL GLAZE	330K 5% 1/8W		
Q210	8-729-620-06	TRANSISTOR 2SC3052-EF		R022	1-216-081-00	METAL GLAZE	22K 5% 1/10W		
Q300	8-729-620-06	TRANSISTOR 2SC3052-EF		R023	1-216-041-00	METAL GLAZE	470 5% 1/10W		
Q301	8-729-900-53	TRANSISTOR DTC114EK		R025	1-216-091-00	METAL GLAZE	56K 5% 1/10W		
Q302	8-729-900-53	TRANSISTOR DTC114EK		R026	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W		
Q303	8-729-900-53	TRANSISTOR DTC114EK		R027	1-216-077-00	METAL GLAZE	15K 5% 1/10W		
Q304	8-729-900-53	TRANSISTOR DTC114EK		R029	1-216-039-00	METAL GLAZE	390 5% 1/10W		
Q305	8-729-900-53	TRANSISTOR DTC114EK		R030	1-215-900-11	METAL OXIDE	22K 5% 2W F		
Q306	8-729-900-53	TRANSISTOR DTC114EK		R031	1-216-025-00	METAL GLAZE	100 5% 1/10W		
Q307	8-729-026-41	TRANSISTOR 2SA933AS-QRT (KV-21C4B/21X4B)		R032	1-216-025-00	METAL GLAZE	100 5% 1/10W		
Q310	8-729-620-06	TRANSISTOR 2SC3052-EF		R033	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W		
Q311	8-729-620-06	TRANSISTOR 2SC3052-EF		R034	1-216-073-00	METAL GLAZE	10K 5% 1/10W		
Q312	8-729-620-06	TRANSISTOR 2SC3052-EF		R036	1-216-295-00	CONDUCTOR, CHIP			
Q402	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R037	1-216-093-00	METAL GLAZE	68K 5% 1/10W		
Q403	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R038	1-216-295-00	CONDUCTOR, CHIP			
Q404	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R040	1-216-073-00	METAL GLAZE	10K 5% 1/10W		
Q405	8-729-620-06	TRANSISTOR 2SC3052-EF		R041	1-216-206-00	METAL GLAZE	2.2K 5% 1/8W		
Q406	8-729-620-06	TRANSISTOR 2SC3052-EF		R042	1-216-027-00	METAL GLAZE	120 5% 1/10W		
Q407	8-729-620-06	TRANSISTOR 2SC3052-EF		R043	1-216-022-00	METAL GLAZE	75 5% 1/10W		
Q408	8-729-620-06	TRANSISTOR 2SC3052-EF		R044	1-216-073-00	METAL GLAZE	10K 5% 1/10W		
Q409	8-729-620-06	TRANSISTOR 2SC3052-EF		R045	1-216-081-00	METAL GLAZE	22K 5% 1/10W		
				R046	1-216-254-00	METAL GLAZE	220K 5% 1/8W		

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R047	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R221	1-216-033-00	METAL GLAZE	220 5% 1/10W (KV-21C4B/21X4B)
R049	1-216-041-00	METAL GLAZE	470 5% 1/10W	R222	1-216-001-00	METAL GLAZE	10 5% 1/10W (KV-21C4B/21X4B)
R050	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R223	1-216-041-00	METAL GLAZE	470 5% 1/10W (KV-21C4B/21X4B)
R051	1-216-174-00	METAL GLAZE	100 5% 1/8W	R224	1-216-025-00	METAL GLAZE	100 5% 1/10W (KV-21C4B/21X4B)
R052	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R225	1-216-037-00	METAL GLAZE	330 5% 1/10W
R053	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R226	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R054	1-216-129-00	METAL GLAZE	2.2M 5% 1/10W	R227	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R057	1-216-198-91	METAL GLAZE	1K 5% 1/8W	R228	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W (KV-21C4B/21X4B)
R058	1-216-198-91	METAL GLAZE	1K 5% 1/8W	R229	1-216-073-00	METAL GLAZE	10K 5% 1/10W (KV-21C4B/21X4B)
R064	1-216-222-00	METAL GLAZE	10K 5% 1/8W	R230	1-216-025-00	METAL GLAZE	100 5% 1/10W (KV-21C4B/21X4B)
R065	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R231	1-216-035-00	METAL GLAZE	270 5% 1/10W (KV-21C4B/21X4B)
R066	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R236	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R067	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R237	1-216-093-00	METAL GLAZE	68K 5% 1/10W
R068	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R238	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R069	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R239	1-216-093-00	METAL GLAZE	68K 5% 1/10W
R070	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R240	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R071	1-216-174-00	METAL GLAZE	100 5% 1/8W	R301	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R072	1-216-174-00	METAL GLAZE	100 5% 1/8W	R302	1-216-037-00	METAL GLAZE	330 5% 1/10W
R078	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	R303	1-216-090-00	METAL GLAZE	51K 5% 1/10W
R088	1-216-043-91	METAL GLAZE	560 5% 1/10W	R304	1-216-025-00	METAL GLAZE	100 5% 1/10W
R089	1-216-043-91	METAL GLAZE	560 5% 1/10W	R305	1-216-025-00	METAL GLAZE	100 5% 1/10W
R090	1-216-043-91	METAL GLAZE	560 5% 1/10W	R306	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R097	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W	R307	1-216-121-91	METAL GLAZE	1M 5% 1/10W
R098	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W	R308	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R099	1-216-200-11	METAL GLAZE	1.2K 5% 1/8W	R309	1-216-121-91	METAL GLAZE	1M 5% 1/10W
R110	1-216-174-00	METAL GLAZE	100 5% 1/8W	R310	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R111	1-216-174-00	METAL GLAZE	100 5% 1/8W	R311	1-216-025-00	METAL GLAZE	100 5% 1/10W
R112	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R312	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R113	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R313	1-216-045-00	METAL GLAZE	680 5% 1/10W
R114	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R314	1-216-045-00	METAL GLAZE	680 5% 1/10W
R115	1-216-190-00	METAL GLAZE	470 5% 1/8W	R315	1-216-045-00	METAL GLAZE	680 5% 1/10W
R116	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R316	1-216-033-00	METAL GLAZE	220 5% 1/10W
R117	1-216-222-00	METAL GLAZE	10K 5% 1/8W	R317	1-216-033-00	METAL GLAZE	220 5% 1/10W
R118	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R318	1-216-021-00	METAL GLAZE	68 5% 1/10W
R119	1-216-031-00	METAL GLAZE	180 5% 1/10W	R322	1-216-022-00	METAL GLAZE	75 5% 1/10W
R120	1-216-041-00	METAL GLAZE	470 5% 1/10W	R323	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R124	1-216-025-00	METAL GLAZE	100 5% 1/10W	R325	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R125	1-216-025-00	METAL GLAZE	100 5% 1/10W	R312	1-216-041-00	METAL GLAZE	470 5% 1/10W
R126	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R326	1-216-041-00	METAL GLAZE	470 5% 1/10W
R134	1-216-037-00	METAL GLAZE	330 5% 1/10W	R327	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R163	1-216-029-00	METAL GLAZE	150 5% 1/10W	R328	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R174	1-216-033-00	METAL GLAZE	220 5% 1/10W	R323	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R200	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R332	1-216-037-00	METAL GLAZE	330 5% 1/10W
R202	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R333	1-216-033-00	METAL GLAZE	220 5% 1/10W
R203	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R334	1-216-033-00	METAL GLAZE	220 5% 1/10W
R204	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R335	1-216-025-00	METAL GLAZE	100 5% 1/10W
R205	1-216-295-00	CONDUCTOR, CHIP		R336	1-216-025-00	METAL GLAZE	100 5% 1/10W
R206	1-249-399-11	CARBON	33 5% 1/4W	R337	1-216-025-00	METAL GLAZE	100 5% 1/10W
R208	1-216-295-00	CONDUCTOR, CHIP		R338	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R209	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R334	1-216-033-00	METAL GLAZE	220 5% 1/10W
R210	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R335	1-216-025-00	METAL GLAZE	100 5% 1/10W
R211	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R336	1-216-025-00	METAL GLAZE	100 5% 1/10W
R213	1-216-174-00	METAL GLAZE	100 5% 1/8W	R337	1-216-025-00	METAL GLAZE	100 5% 1/10W
R214	1-216-174-00	METAL GLAZE	100 5% 1/8W	R338	1-216-037-00	METAL GLAZE	3.3K 5% 1/10W (KV-21C4B/21X4B)
R215	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R339	1-216-061-00	METAL GLAZE	6.8K 5% 1/10W (KV-21C4B/21X4B)
R218	1-216-037-00	METAL GLAZE	330 5% 1/10W (KV-21C4B/21X4B)	R340	1-216-238-91	METAL GLAZE	47K 5% 1/8W
R219	1-216-049-00	METAL GLAZE	1K 5% 1/10W (KV-21C4B/21X4B)	R341	1-216-069-00	METAL GLAZE	8.2K 5% 1/10W
R220	1-216-045-00	METAL GLAZE	680 5% 1/10W (KV-21C4B/21X4B)	R342	1-216-186-00	METAL GLAZE	330 5% 1/8W
				R343	1-216-295-00	CONDUCTOR, CHIP	

A

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Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R344	1-216-295-00	CONDUCTOR, CHIP		R436	1-216-001-00	METAL GLAZE	10 5% 1/10W
R345	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R437	1-216-017-00	METAL GLAZE	47 5% 1/10W
R347	1-216-041-00	METAL GLAZE	470 5% 1/10W (KV-21C4B/21X4B)	R501	1-216-675-11	METAL CHIP	10K 0.50% 1/10W
R348	1-216-073-00	METAL GLAZE	10K 5% 1/10W (KV-21C4B/21X4B)	R502	1-216-675-11	METAL CHIP	10K 0.50% 1/10W
				R503	1-216-218-00	METAL GLAZE	6.8K 5% 1/8W
R349	1-216-101-00	METAL GLAZE	150K 5% 1/10W (KV-21C4B/21X4B)	R504	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R350	1-216-033-00	METAL GLAZE	220 5% 1/10W (KV-21C4B/21X4B)	R505	1-216-079-00	METAL GLAZE	18K 5% 1/10W
R351	1-218-463-91	METAL GLAZE	8.2M 5% 1/10W	R506	1-216-669-11	METAL CHIP	5.6K 0.50% 1/10W
R354	1-216-033-00	METAL GLAZE	220 5% 1/10W	R507	1-216-350-11	METAL OXIDE	1.2 5% 1W F
R355	1-216-121-91	METAL GLAZE	1M 5% 1/10W	R508	1-215-865-11	METAL OXIDE	220 5% 1W F
R359	1-216-089-00	METAL GLAZE	47K 5% 1/10W				
R360	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R509	1-249-383-11	CARBON	1.5 5% 1/4W F
R361	1-216-022-00	METAL GLAZE	75 5% 1/10W	R513	1-249-429-11	CARBON	10K 5% 1/4W
R362	1-216-022-00	METAL GLAZE	75 5% 1/10W	R514	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R363	1-216-022-00	METAL GLAZE	75 5% 1/10W	R515	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R364	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R516	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R365	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R601 ▲	1-202-962-11	WIREWOUND	3.3 5% 10W
R366	1-216-041-00	METAL GLAZE	470 5% 1/10W	R602	1-249-417-11	CARBON	1K 5% 1/4W
R367	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R603	1-215-898-11	METAL OXIDE	10K 5% 2W F
R368	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R604	1-215-902-11	METAL OXIDE	47K 5% 2W F
R369	1-216-238-91	METAL GLAZE	47K 5% 1/8W	R605	1-216-365-00	METAL OXIDE	0.47 5% 2W F
R371	1-216-192-00	METAL GLAZE	560 5% 1/8W	R606	1-535-143-00	LEAD, JUMPER (10.00MM)	
R372	1-216-043-91	METAL GLAZE	560 5% 1/10W	R607	1-215-858-00	METAL OXIDE	15 5% 1W F
R401	1-216-041-00	METAL GLAZE	470 5% 1/10W	R608	1-216-365-00	METAL OXIDE	0.47 5% 2W F
R402	1-247-807-31	CARBON	100 5% 1/4W	R609	1-249-420-11	CARBON	1.8K 5% 1/4W
R403	1-247-807-31	CARBON	100 5% 1/4W	R610	1-249-415-11	CARBON	680 5% 1/4W
R404	1-216-022-00	METAL GLAZE	75 5% 1/10W	R611	1-216-354-11	METAL OXIDE	2.7 5% 1W F
R405	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R612 ▲	1-260-135-11	CARBON	1M 5% 1/2W
R406	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R613	1-249-417-11	CARBON	1K 5% 1/4W
R407	1-216-691-11	METAL CHIP	47K 0.50% 1/10W	R614 ▲	1-218-265-11	METAL	8.2M 5% 1W
R408	1-216-691-11	METAL CHIP	47K 0.50% 1/10W	R615	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R409	1-216-691-11	METAL CHIP	47K 0.50% 1/10W	R616	1-215-479-00	METAL	270K 1% 1/4W
R410	1-216-022-00	METAL GLAZE	75 5% 1/10W	R617	1-215-877-11	METAL OXIDE	22K 5% 1W F
R411	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R618	1-247-863-91	CARBON	22K 5% 1/4W
R412	1-216-041-00	METAL GLAZE	470 5% 1/10W	R619	1-249-424-11	CARBON	3.9K 5% 1/4W
R413	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R620	1-247-895-91	CARBON	470K 5% 1/4W
R414	1-260-311-11	CARBON	39 5% 1/2W	R621	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R415	1-260-311-11	CARBON	39 5% 1/2W	R622	1-249-437-11	CARBON	47K 5% 1/4W
R416	1-216-022-00	METAL GLAZE	75 5% 1/10W	R623	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R417	1-216-025-00	METAL GLAZE	100 5% 1/10W	R625	1-249-426-11	CARBON	5.6K 5% 1/4W
R418	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R626	1-535-465-11	LEAD, JUMPER (5.0MM)	
R419	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R628	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R420	1-247-807-31	CARBON	100 5% 1/4W	R629	1-215-857-11	METAL OXIDE	10 5% 1W F
R421	1-247-807-31	CARBON	100 5% 1/4W	R630	1-216-371-00	METAL OXIDE	1.5 5% 2W F
R422	1-216-691-11	METAL CHIP	47K 0.50% 1/10W	R631	1-216-392-11	METAL OXIDE	1.8 5% 3W F
R423	1-216-691-11	METAL CHIP	47K 0.50% 1/10W	R632	1-247-807-31	CARBON	100 5% 1/4W
R424	1-216-691-11	METAL CHIP	47K 0.50% 1/10W	R634	1-249-397-11	CARBON	22 5% 1/4W F
R425	1-216-651-11	METAL CHIP	1K 0.50% 1/10W	R635	1-249-437-11	CARBON	47K 5% 1/4W
R426	1-216-651-11	METAL CHIP	1K 0.50% 1/10W	R636	1-249-417-11	CARBON	1K 5% 1/4W
R427	1-216-651-11	METAL CHIP	1K 0.50% 1/10W	R637	1-247-815-91	CARBON	220 5% 1/4W
R428	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R638	1-247-863-91	CARBON	22K 5% 1/4W
R429	1-216-188-00	METAL GLAZE	390 5% 1/8W	R645	1-249-422-11	CARBON	2.7K 5% 1/4W
R430	1-216-001-00	METAL GLAZE	10 5% 1/10W	R646	1-249-382-11	CARBON	1.2 5% 1/4W F
R431	1-216-041-00	METAL GLAZE	470 5% 1/10W	R647	1-202-933-61	FUSIBLE	0.1 10% 1/2W F
R432	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R648	1-249-407-11	CARBON	150 5% 1/4W
R433	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W	R651	1-215-902-11	METAL OXIDE	47K 5% 2W F
R434	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R800	1-215-887-00	METAL OXIDE	150 5% 2W F
R435	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R801	1-216-049-00	METAL GLAZE	1K 5% 1/10W
				R802	1-216-174-00	METAL GLAZE	100 5% 1/8W
				R803	1-216-081-00	METAL GLAZE	22K 5% 1/10W
				R804	1-215-917-11	METAL OXIDE	1K 5% 3W F

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK	
R805	1-215-897-11	METAL OXIDE	6.8K 5%	2W	F	< CRYSTAL >		
R806	1-216-350-11	METAL OXIDE	1.2 5%	1W	F	X201	1-760-628-11 VIBRATOR, CRYSTAL	
R807	1-249-399-11	CARBON	33 5%	1/4W		X301	1-760-907-21 VIBRATOR, CRYSTAL	
R808	1-202-813-00	SOLID	22K 10%	1/2W		X302	1-760-710-21 VIBRATOR, CRYSTAL	
R810	1-247-895-91	CARBON	470K 5%	1/4W				
R813	1-216-295-00	CONDUCTOR, CHIP					*****	
R814	1-217-811-11	FUSIBLE	0.47 5%	1/4W			*A-1638-102-A C BOARD, COMPLETE	
R815	1-216-101-00	METAL GLAZE	150K 5%	1/10W			*****	
R816	1-216-366-00	METAL OXIDE	0.56 5%	2W	F		(KV-21C4B/21C4D/21C4E/21C4K/21C4R)	
R817	1-216-447-00	METAL OXIDE	27 5%	2W	F			
R818	1-202-813-00	SOLID	22K 10%	1/2W			*A-1638-090-A C BOARD, COMPLETE	
R819	1-249-441-11	CARBON	100K 5%	1/4W			*****	
R820	1-247-713-51	CARBON	1K 5%	1W	F		(KV-21X4A/21X4B/21X4D/21X4E/21X4K/21X4L/21X4R/21X4U)	
R821	1-216-295-00	CONDUCTOR, CHIP						
R822	1-216-103-00	METAL GLAZE	180K 5%	1/10W				
R823	1-249-413-11	CARBON	470 5%	1/4W			< CAPACITOR >	
R824	1-216-125-00	METAL GLAZE	1.5M 5%	1/10W	C701	1-102-115-00 CERAMIC	560PF 10% 50V	
R825	1-216-107-00	METAL GLAZE	270K 5%	1/10W	C702	1-102-115-00 CERAMIC	560PF 10% 50V	
R826	1-216-296-00	CONDUCTOR, CHIP			C703	1-102-115-00 CERAMIC	560PF 10% 50V	
R828	1-216-115-00	METAL GLAZE	560K 5%	1/10W	C704	1-102-824-00 CERAMIC	470PF 5% 50V	
R829	1-535-143-71	LEAD, JUMPER (7.5MM)			C705	1-102-824-00 CERAMIC	470PF 5% 50V	
R830	1-216-295-00	CONDUCTOR, CHIP			C706	1-102-824-00 CERAMIC	470PF 5% 50V	
R834	1-535-143-11	LEAD, JUMPER (10.0MM)			C707	1-107-651-11 ELECT	4.7MF 20% 250V	
R841	1-217-811-11	FUSIBLE	0.47 5%	1/4W	C709	1-162-114-00 CERAMIC	0.0047MF 2KV	
R862	1-215-902-11	METAL OXIDE	47K 5%	2W	F	C710	1-126-967-11 ELECT	47MF 20% 16V
R1200	1-216-206-00	METAL GLAZE	2.2K 5%	1/8W	C711	1-101-880-00 CERAMIC	47PF 5% 50V	
R1201	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W				
R1202	1-216-073-71	METAL GLAZE	10K 5%	1/10W	C712	1-102-820-00 CERAMIC	330PF 5% 50V	
R1203	1-216-065-71	METAL GLAZE	4.7K 5%	1/10W	C713	1-101-880-00 CERAMIC	47PF 5% 50V	
R1204	1-216-222-00	METAL GLAZE	10K 5%	1/8W				
R1205	1-216-222-00	METAL GLAZE	10K 5%	1/8W			< CONNECTOR >	
R1208	1-212-849-00	FUSIBLE	4.7 5%	1/4W	F	CNC71	*1-568-881-51 PIN, CONNECTOR 6P	
R1209	1-212-849-00	FUSIBLE	4.7 5%	1/4W	F	CNC72	*1-568-880-51 PIN, CONNECTOR 5P	
R1211	1-249-424-11	CARBON	3.9K 5%	1/4W		CNC73	1-695-915-11 TAB (CONTACT)	
R1212	1-249-424-11	CARBON	3.9K 5%	1/4W		CNC76	1-695-915-11 TAB (CONTACT)	
< RELAY >								
RY600	\triangle 1-755-018-11	RELAY						
< TRANSFORMER >								
T601	\triangle 1-427-962-21	TRANSFORMER, LINE FILTER			D701	8-719-991-33 DIODE 1SS133T-77		
T602	\triangle 1-431-595-11	TRANSFORMER CONVERTER SRT DT-259A			D702	8-719-991-33 DIODE 1SS133T-77		
T801	1-437-090-31	HDT			D703	8-719-991-33 DIODE 1SS133T-77		
T802	\triangle 1-453-200-11	TRANSFORMER ASSY, FLYBACK (NX-1741/U2B) (KV-21C4B/21C4D/21C4E/21C4K/21C4R)			D704	8-719-991-33 DIODE 1SS133T-77		
	1-453-199-11	TRANSFORMER ASSY, FLYBACK (NX-1741/U2A) (KV-21X4A/21X4B/21X4D/21X4E/21X4K/21X4L/21X4R/21X4U)			D705	8-719-991-33 DIODE 1SS133T-77		
< THERMISTOR >								
THP601	\triangle 1-809-827-11	THERMISTOR, POSITIVE			D706	8-719-991-33 DIODE 1SS133T-77		
< TUNER >								
TU101	1-693-340-11	TUNER/VIF (FR) (KV-21C4B/21X4B)			D707	8-719-991-33 DIODE 1SS133T-77		
	1-693-339-11	TUNER/VIF (AEP) (KV-21C4D/21C4E/21C4K/21C4R/21X4A/21X4D/21X4E/21X4K/21X4L/21X4R)			D708	8-719-991-33 DIODE 1SS133T-77		
	1-693-339-11	TUNER/VIF (UK) (KV-21X4U)			D709	8-719-991-33 DIODE 1SS133T-77		
					D716	8-719-991-33 DIODE 1SS133T-77		
< CRT SOCKET >								
J701	\triangle 1-526-990-21	SOCKET, CRT			D717	8-719-054-81 DIODE 1SS292T-77		
< COIL >								
L702	1-408-425-00	INDUCTOR 220UH			D718	8-719-991-33 DIODE 1SS133T-77		
L703	1-535-303-00	LEAD, JUMPER (5.0MM)			D719	8-719-054-81 DIODE 1SS292T-77		
L704	1-535-303-00	LEAD, JUMPER (5.0MM)			D723	8-719-991-33 DIODE 1SS133T-77		
					D724	8-719-054-81 DIODE 1SS292T-77		

C	H1	H2
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REF.NO.	PART NO.	DESCRIPTION	REMARK			REF.NO.	PART NO.	DESCRIPTION	REMARK											
< TRANSISTOR >																				
Q701	8-729-119-78	TRANSISTOR 2SC2785-HFE				C906	1-535-303-00	LEAD, JUMPER (5.0MM)												
Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE				C907	1-535-303-00	LEAD, JUMPER (5.0MM)												
Q703	8-729-119-78	TRANSISTOR 2SC2785-HFE				C910	1-130-489-00	FILM 0.033MF	5%	50V										
Q704	8-729-906-70	TRANSISTOR BF871-127				C911	1-130-489-00	FILM 0.033MF	5%	50V										
Q705	8-729-906-70	TRANSISTOR BF871-127				< CONNECTOR >														
Q706	8-729-906-70	TRANSISTOR BF871-127				CN906	*1-564-512-11	PLUG, CONNECTOR 9P												
Q707	8-729-200-17	TRANSISTOR 2SA1091-0				< DIODE >														
Q708	8-729-200-17	TRANSISTOR 2SA1091-0				D908	8-719-109-89	DIODE RD5.6ESB2												
Q709	8-729-200-17	TRANSISTOR 2SA1091-0				< JACK >														
< RESISTOR >																				
R700	1-202-549-00	SOLID	100	20%	1/2W	J900	1-764-606-11	JACK												
R701	1-249-417-11	CARBON	1K	5%	1/4W	J902	0-552-060-00	AUDIO-VIDEO CONNECTOR												
R702	1-249-417-11	CARBON	1K	5%	1/4W	< COIL >														
R705	1-535-143-11	LEAD, JUMPER (10.0MM)				L900	1-408-409-00	INDUCTOR	10UH											
R706	1-249-399-11	CARBON	33	5%	1/4W	L901	1-408-409-00	INDUCTOR	10UH											
R707	1-249-401-11	CARBON	47	5%	1/4W	L902	1-408-409-00	INDUCTOR	10UH											
R708	1-247-815-91	CARBON	220	5%	1/4W	L903	1-408-409-00	INDUCTOR	10UH											
R709	1-247-815-91	CARBON	220	5%	1/4W	L904	1-408-409-00	INDUCTOR	10UH											
R710	1-247-815-91	CARBON	220	5%	1/4W	< RESISTOR >														
R711	1-249-417-11	CARBON	1K	5%	1/4W	R904	1-535-303-00	LEAD, JUMPER (5.0MM)												
R714	1-249-417-11	CARBON	1K	5%	1/4W	R905	1-535-303-00	LEAD, JUMPER (5.0MM)												
R715	1-249-417-11	CARBON	1K	5%	1/4W	R909	1-249-437-11	CARBON	47K 5%	1/4W										
R716	1-249-417-11	CARBON	1K	5%	1/4W	R910	1-249-437-11	CARBON	47K 5%	1/4W										
R717	1-260-105-11	CARBON	3.3K	5%	1/2W	*****														
R718	1-260-105-11	CARBON	3.3K	5%	1/2W	*A-1646-146-A H2 BOARD, COMPLETE														
R719	1-260-105-11	CARBON	3.3K	5%	1/2W	*****														
R720	1-215-923-00	METAL OXIDE	10K	5%	3W F	(KV-21C4B/21C4D/21C4E/21C4K/21C4R)														
R721	1-215-923-00	METAL OXIDE	10K	5%	3W F	*A-1646-149-A H2 BOARD, COMPLETE														
R722	1-215-923-00	METAL OXIDE	10K	5%	3W F	*****														
R723	1-535-143-11	LEAD, JUMPER (10.0MM)				(KV-21X4A/21X4B/21X4D/21X4E/21X4K/21X4L/21X4R/21X4U)														
R724	1-202-814-11	SOLID	33K	10%	1/2W	< CAPACITOR >														
R725	1-202-846-00	SOLID	470K	10%	1/2W	C904	1-104-665-11	ELECT	100MF	20%	25V									
R729	1-216-350-11	METAL OXIDE	1.2	5%	1W F	C905	1-126-964-11	ELECT	10MF	20%	50V									
R730	1-249-410-11	CARBON	270	5%	1/4W	< CONNECTOR >														
R731	1-247-815-91	CARBON	220	5%	1/4W	CN907	*1-564-519-11	PLUG, CONNECTOR 4P												
R732	1-249-410-11	CARBON	270	5%	1/4W	< DIODE >														
R734	1-247-815-91	CARBON	220	5%	1/4W	D901	8-719-302-45	DIODE SEL1210S-D												
R735	1-247-815-91	CARBON	220	5%	1/4W	*4-203-258-01 HOLDER, LED (D901)														
R736	1-247-815-91	CARBON	220	5%	1/4W	< IC >														
R744	1-260-103-11	CARBON	2.2K	5%	1/2W	IC900	8-742-014-10	RECEIVER HIC SBX1981-51												
R745	1-260-103-11	CARBON	2.2K	5%	1/2W	< RESISTOR >														
R746	1-260-103-11	CARBON	2.2K	5%	1/2W	R900	1-249-417-11	CARBON	1K 5%	1/4W										
< VARIABLE RESISTOR >																				
RV702	1-241-656-21	RES, ADJ, METAL FILM 110M				R901	1-249-408-11	CARBON	180 5%	1/4W										

*A-1646-145-A H1 BOARD, COMPLETE																				

(KV-21C4B/21C4D/21C4E/21C4K/21C4R)																				
*A-1646-148-A H1 BOARD, COMPLETE																				

(KV-21X4A/21X4B/21X4D/21X4E/21X4K/21X4L/21X4R/21X4U)																				
< CAPACITOR >																				
C900	1-102-114-00	CERAMIC	470PF	10%	50V	R902	1-249-401-11	CARBON	47 5%	1/4W										
C901	1-102-114-00	CERAMIC	470PF	10%	50V	*****														

H3

<u>REF.NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>	<u>REF.NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>
***** ACCESSORIES AND PACKING MATERIALS (KV-21X4) *****							
	*4-039-905-02	BAG, PROTECTION					
	*4-044-002-01	CUSHION (UPPER) (ASSY)					
	*4-044-003-01	CUSHION (LOWER) (ASSY)					
	*4-044-004-11	INDIVIDUAL CARTON					
	4-203-823-41	MANUAL, INSTRUCTION (KV-21X4A) (ITALIAN)					
	4-203-823-51	MANUAL, INSTRUCTION (KV-21X4B) (FRENCH/ITALIAN/GERMAN/DUTCH)					
	4-203-823-11	MANUAL, INSTRUCTION (KV-21X4D) (GERMAN/GREEK/DUTCH/TURKISH/ENGLISH)					
	4-203-823-71	MANUAL, INSTRUCTION (KV-21X4E) (SPANISH)					
	4-203-823-81	MANUAL, INSTRUCTION (KV-21X4E) (PORTUGUESE/FINNISH/SWEDISH/ DANISH/NORWEGIAN/HUNGARIAN)					
	4-203-823-91	MANUAL, INSTRUCTION (KV-21X4K/21X4R) (CZECH/ENGLISH/POLISH/ RUSSIAN/BULGARIAN)					
	4-203-823-61	MANUAL, INSTRUCTION (KV-21X4L/21X4U) (ENGLISH)					
***** REMOTE COMMANDER *****							
	1-473-194-11	COMMANDER, STANDARD TYPE (RM-836)					
